

Fig. 2

FIG. 3 is a perspective view of the device 10 in a closed position. The device 10 is a mechanical device for testing the strength of a material. It includes a base 12, a display 18, a control panel 20, and a testing mechanism 22. The testing mechanism 22 is used to apply a force to a material sample 24. The display 18 shows the weight of the sample 24. The control panel 20 includes a power button 26 and a reset button 28. The testing mechanism 22 is used to apply a force to a material sample 24. The display 18 shows the weight of the sample 24. The control panel 20 includes a power button 26 and a reset button 28.

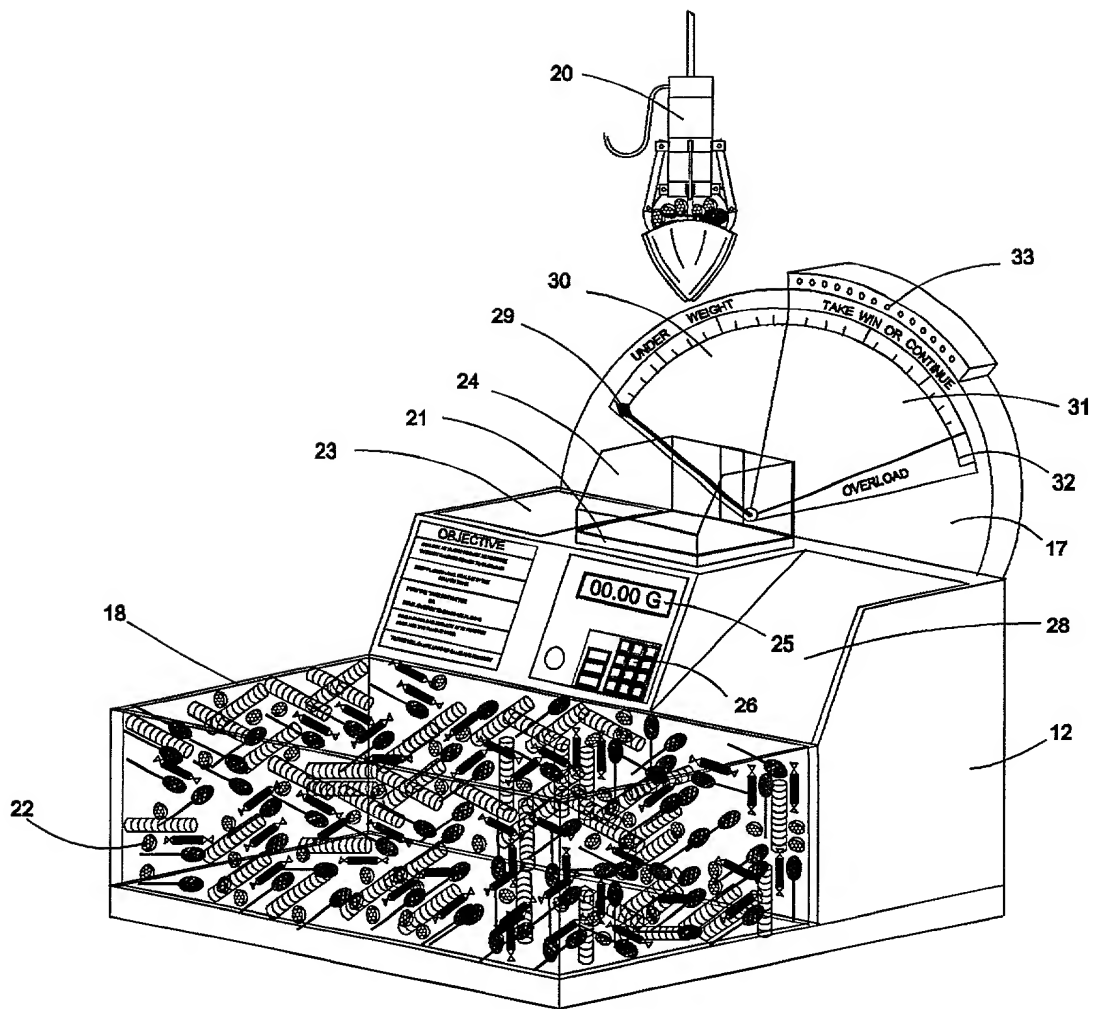


Fig. 3

1. A method of determining the weight of a sample, comprising:  
 2. placing the sample in a container;  
 3. weighing the container with the sample;  
 4. weighing the container without the sample;  
 5. subtracting the weight of the container from the weight of the container with the sample to determine the weight of the sample.

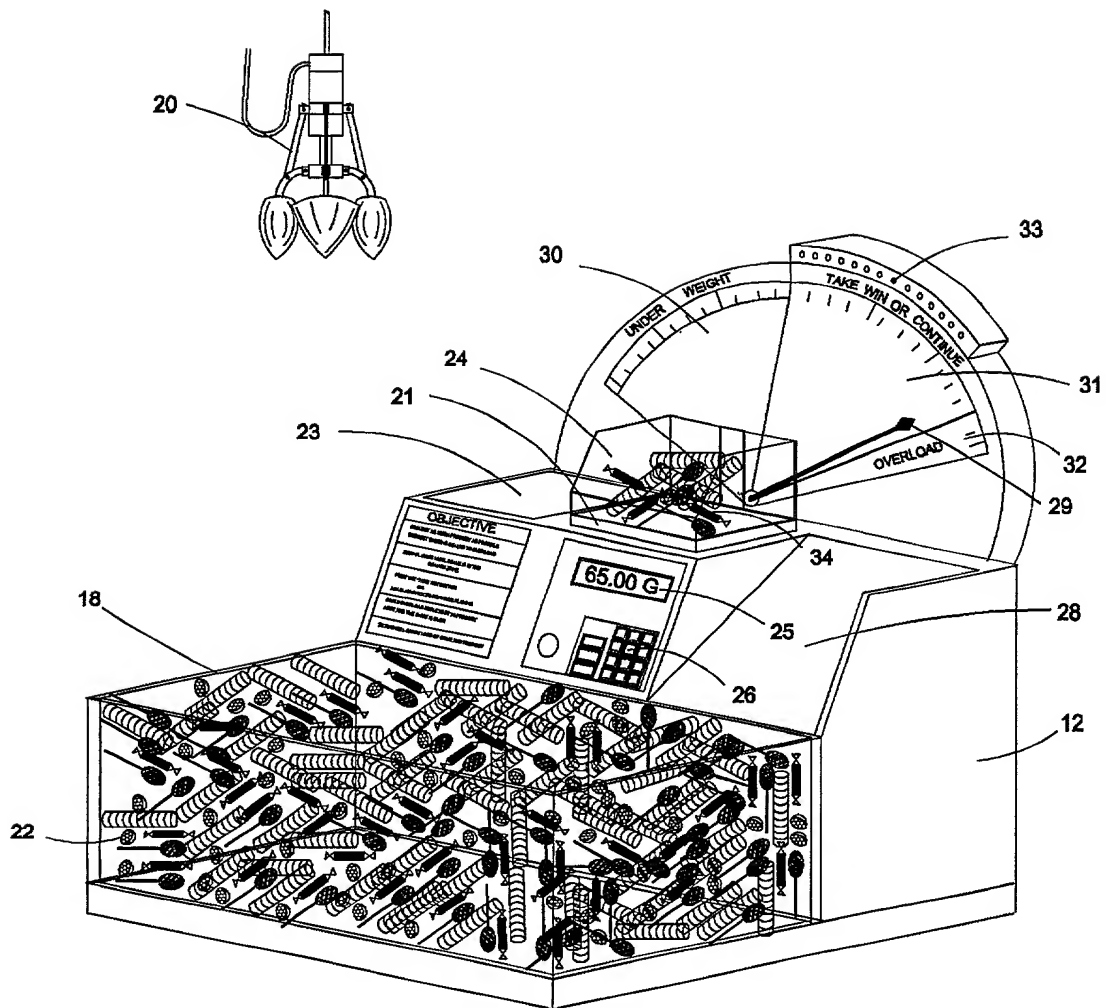


Fig. 4



FIG. 6 is a perspective view of the apparatus of FIG. 1, showing the hopper 12, the weighing unit 20, the display unit 21, the control unit 22, and the weighing unit 23. The hopper 12 is a rectangular container for holding the material to be weighed. The weighing unit 20 is a mechanical device for weighing the material. The display unit 21 is a digital display showing the weight. The control unit 22 is a control panel with buttons and a switch. The weighing unit 23 is a weighing unit for weighing the material.

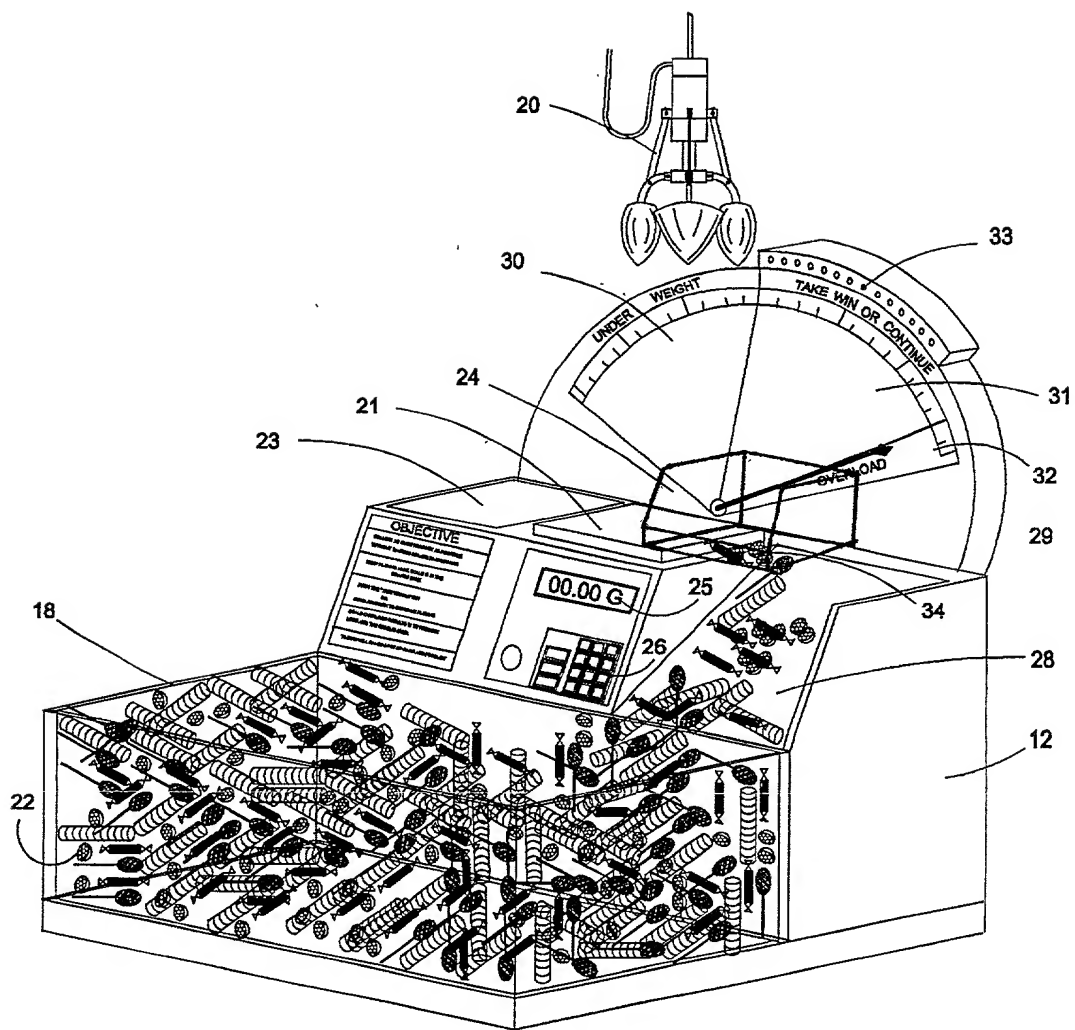


Fig. 6

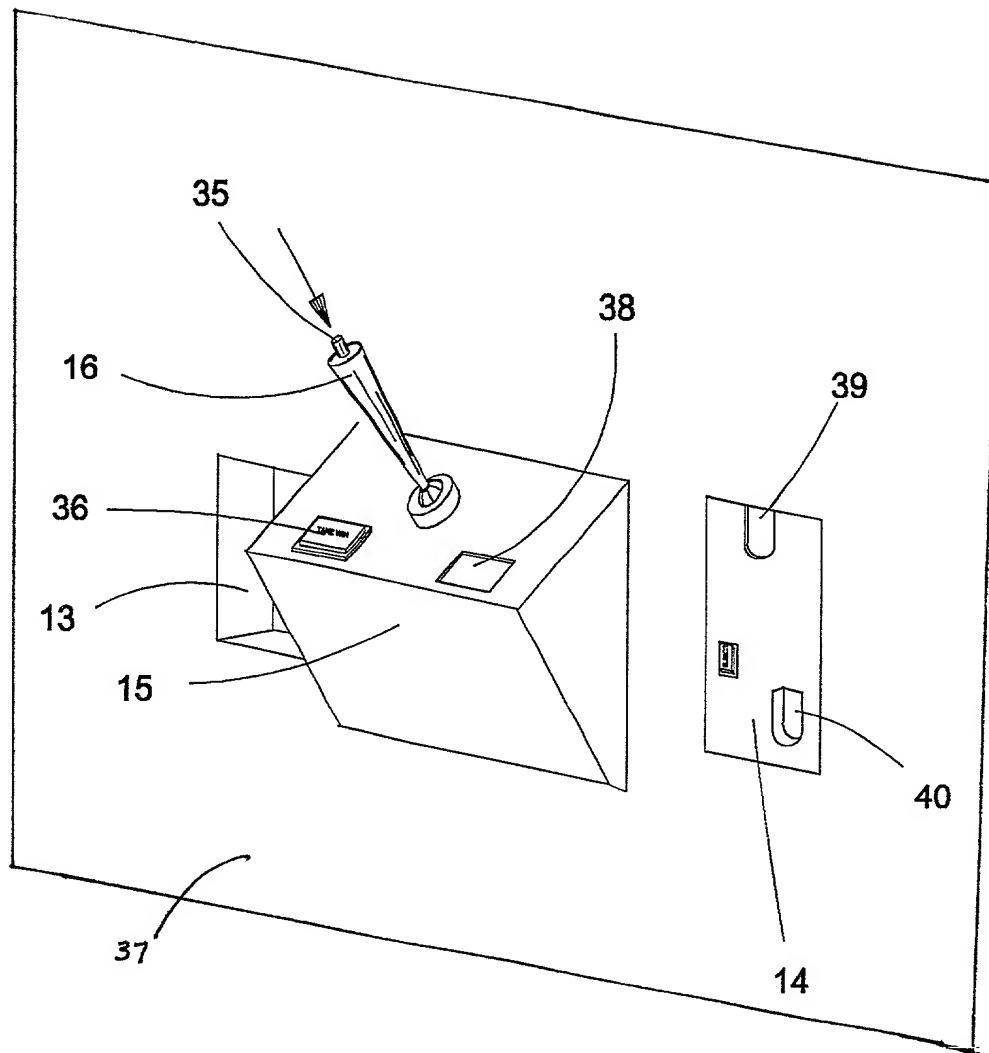


Fig. 7

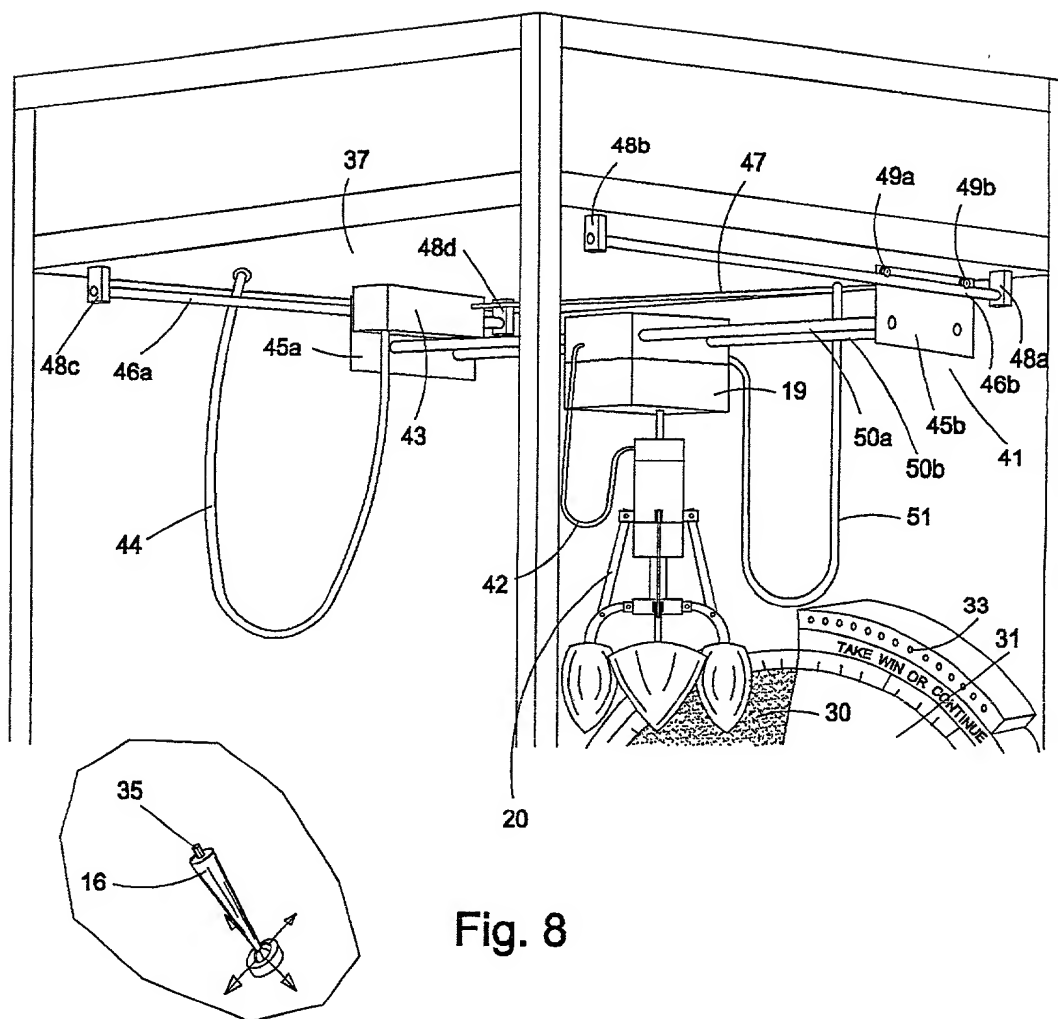




FIG. 9 is a perspective view of the slot machine 100 showing the front panel 101 and the top panel 102. The front panel 101 includes a display area 103 and a control area 104. The top panel 102 includes a coin slot 105 and a coin return button 106. The slot machine 100 is shown in a perspective view from the front and slightly to the right.

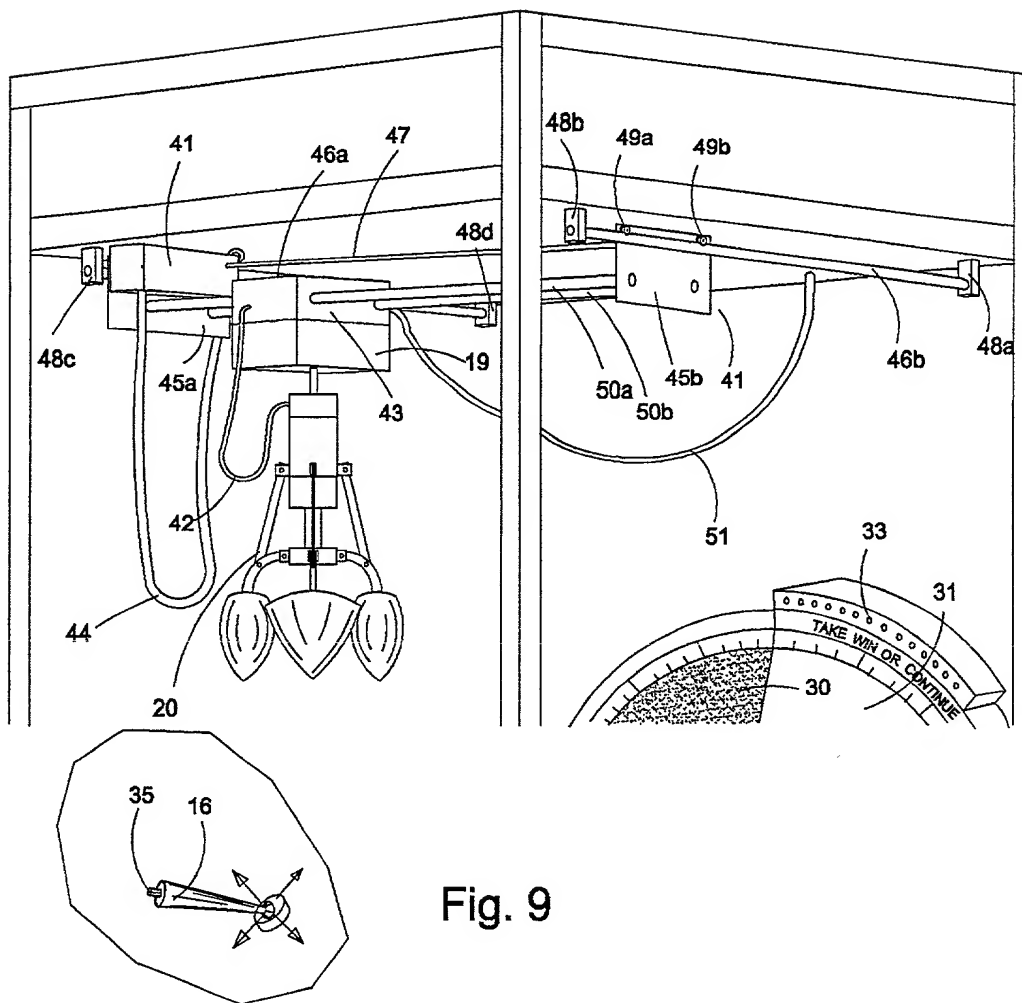


Fig. 9

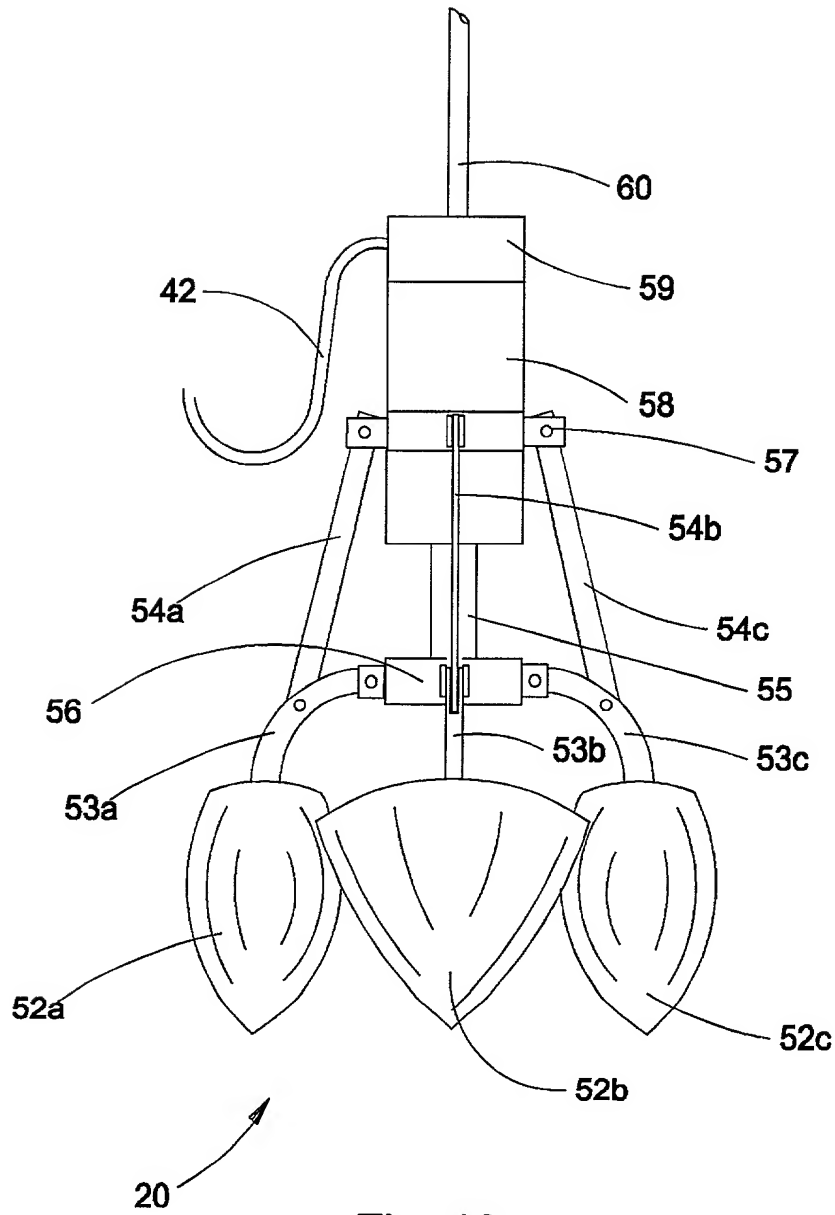


Fig. 10

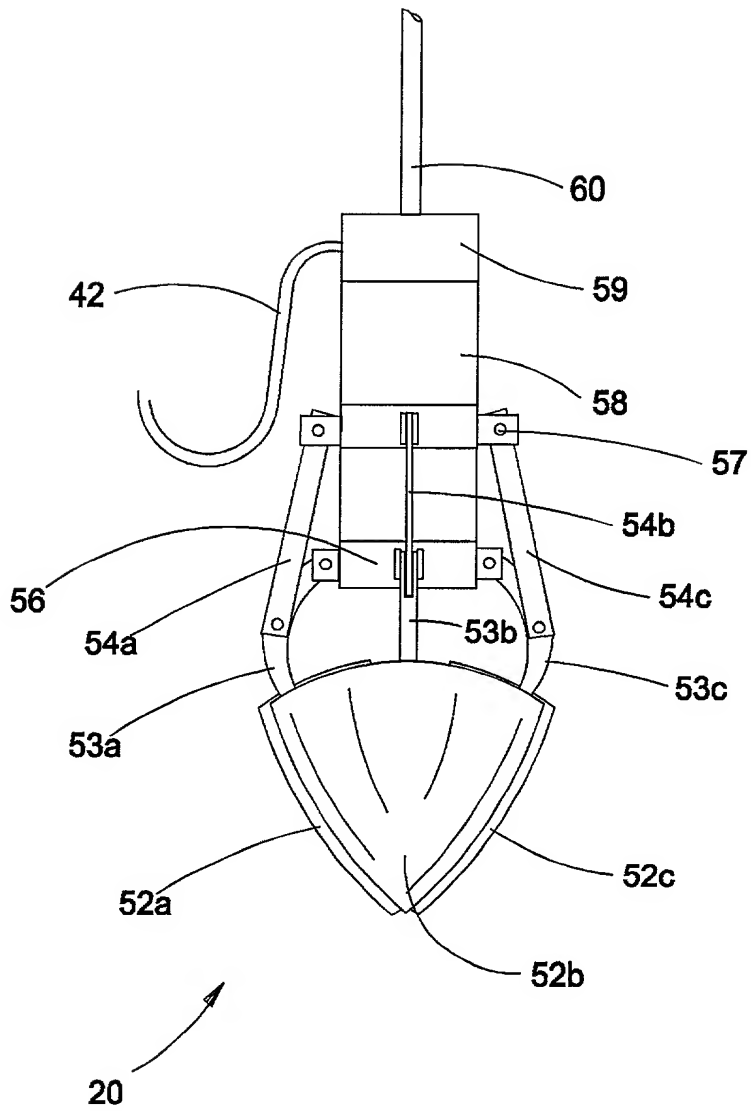


Fig. 11

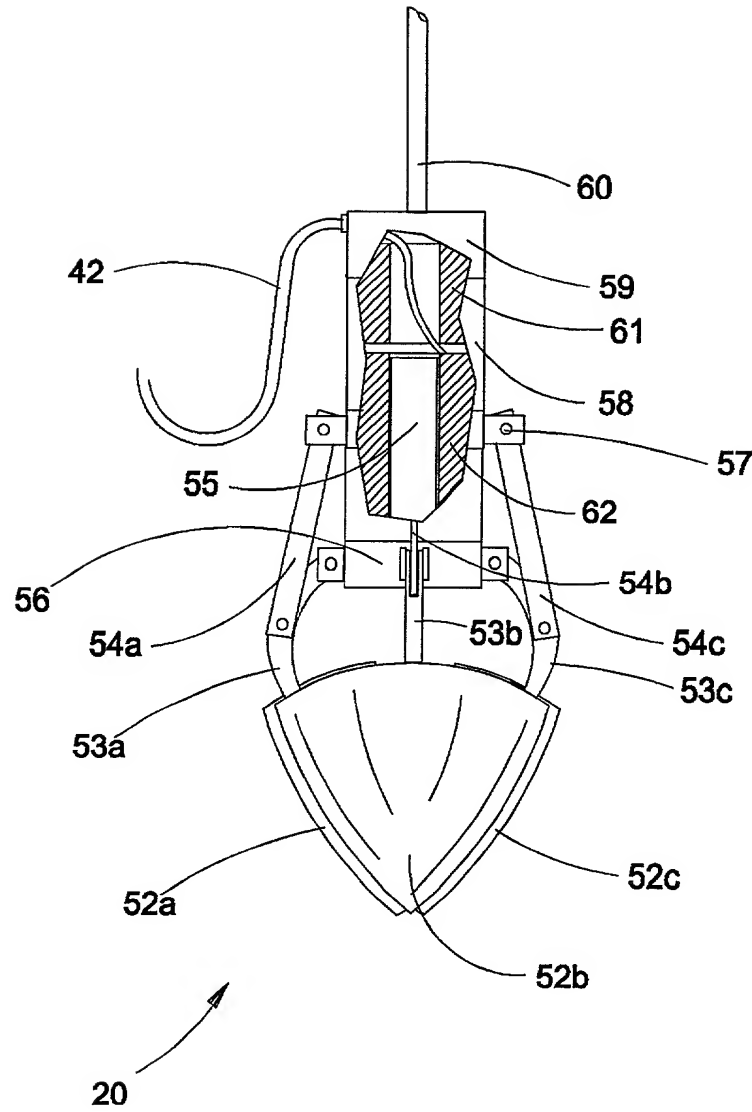


Fig. 12

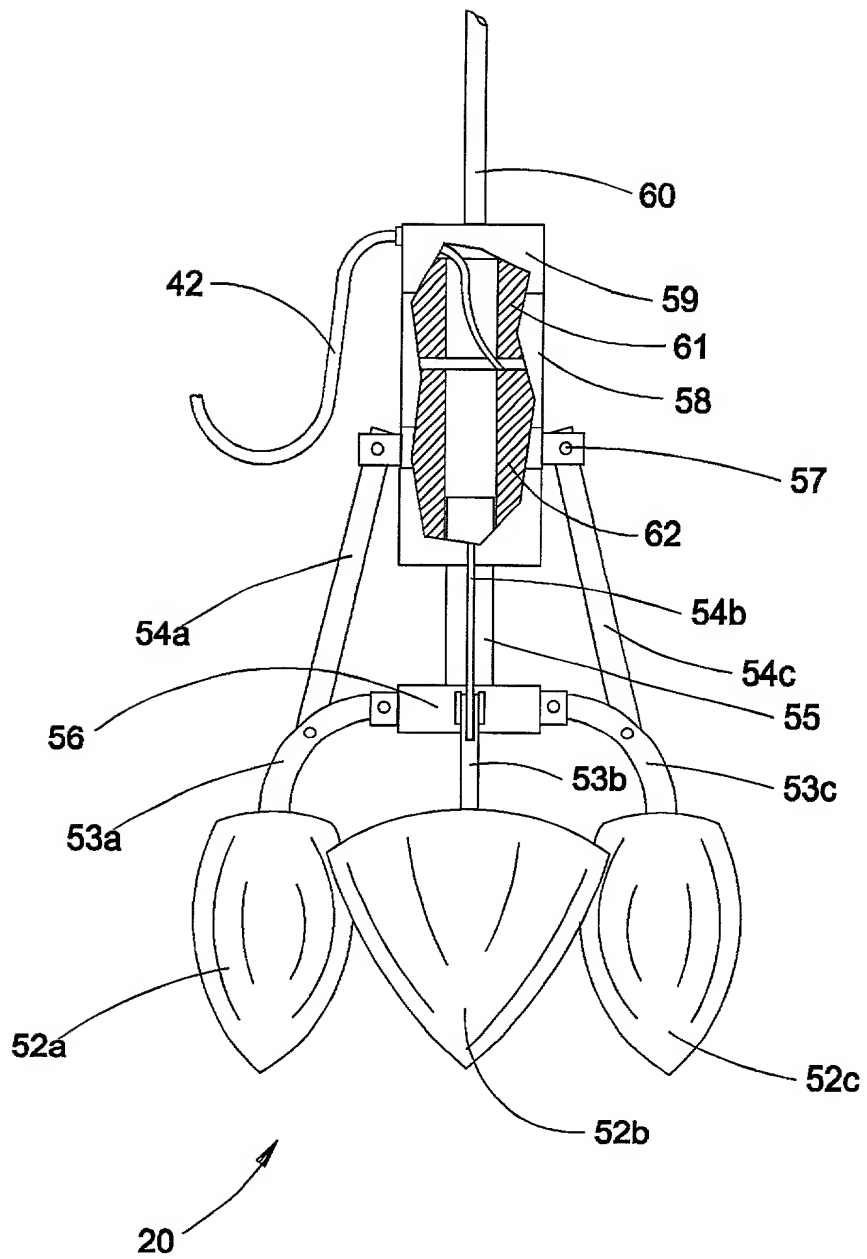


Fig. 13



FIG. 15 is a perspective view of the device 100 in a closed position. The device 100 includes a handle 44, a body 43, and a head 45a. The head 45a includes a front face 46a and a side face 46b. The front face 46a includes a port 47. The side face 46b includes a port 48c. The handle 44 is connected to the body 43 by a hinge 45b. The handle 44 is in a closed position, where the front face 46a is facing the side face 46b. The handle 44 is also in a closed position, where the front face 46a is facing the side face 46b.

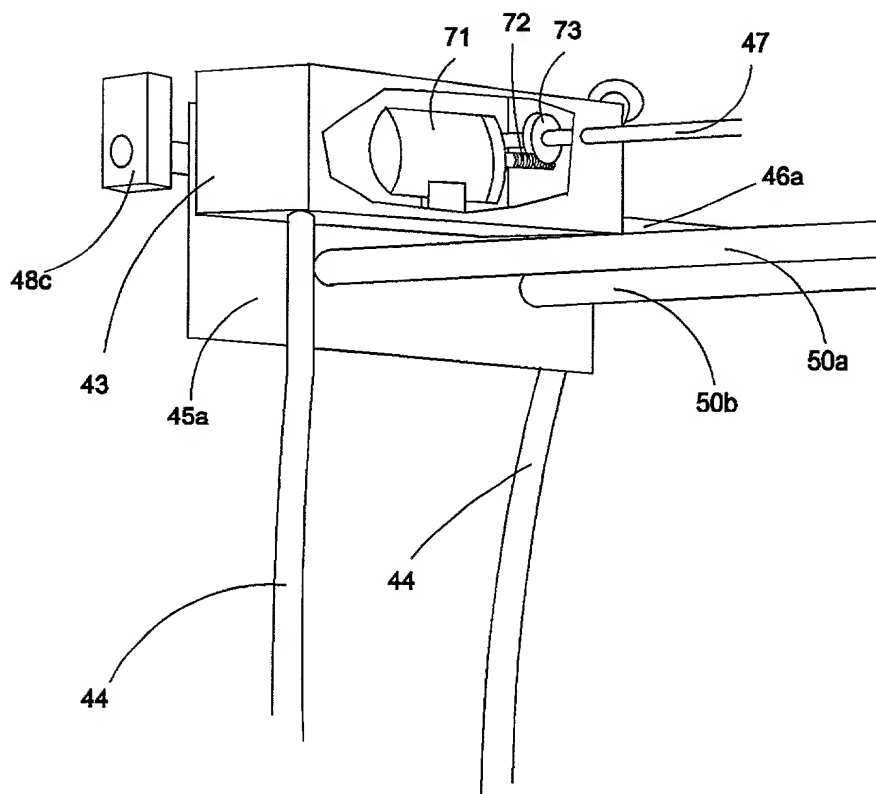


Fig. 15

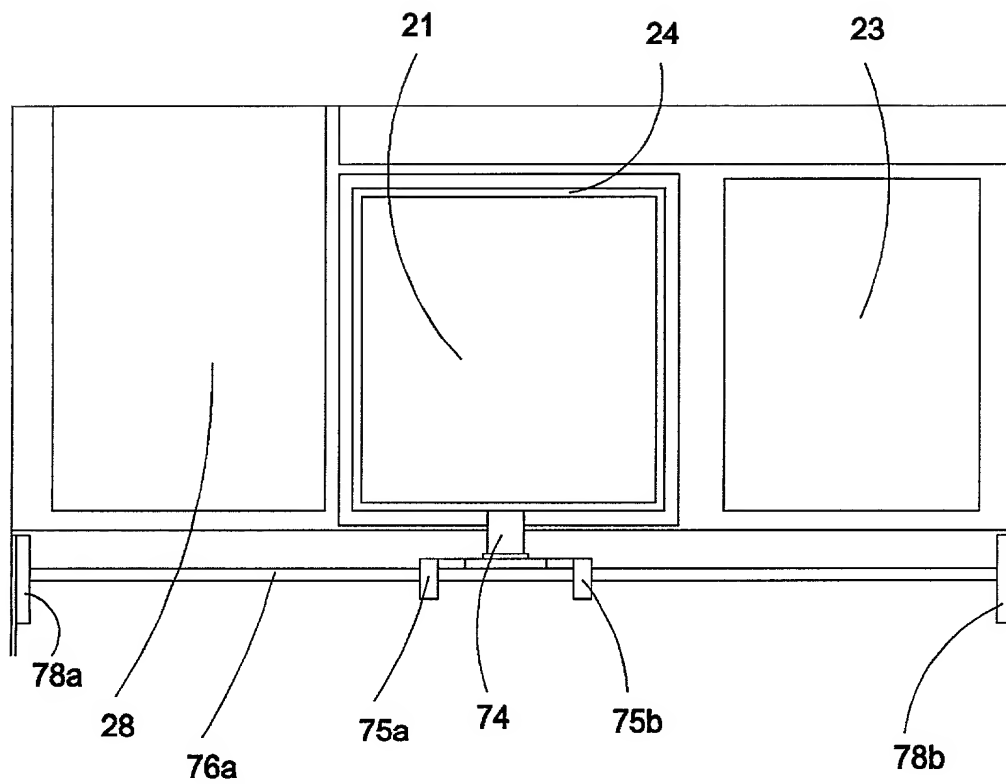


Fig. 16



FIG. 17 is a schematic diagram of a mechanical assembly, showing a cross-sectional view of a device. The assembly includes a main body 21, a central component 24, and a base 74. The main body 21 is supported by a frame 79a and 79b. The central component 24 is connected to the main body 21 via a vertical support 75a and 75b. The base 74 is connected to the main body 21 via a horizontal support 76a and 76b. The assembly also includes a series of rollers 80a and 80b, a drive mechanism 88 and 89, and a series of gears 81, 82, 83, 84, and 85. The rollers 80a and 80b are supported by a frame 78a and 78b. The drive mechanism 88 and 89 is connected to the rollers 80a and 80b via a series of gears 81, 82, 83, 84, and 85. The assembly is shown in a cross-sectional view, with the main body 21 and the central component 24 being the primary components.

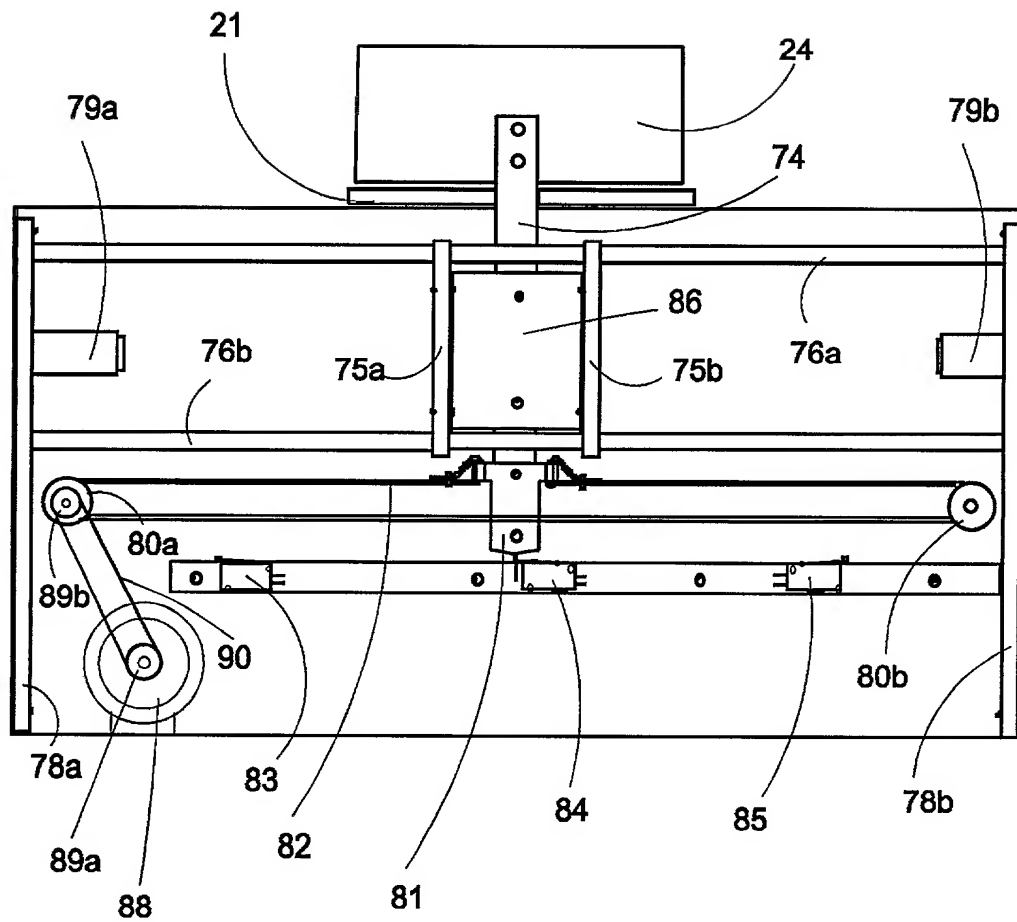


Fig. 17

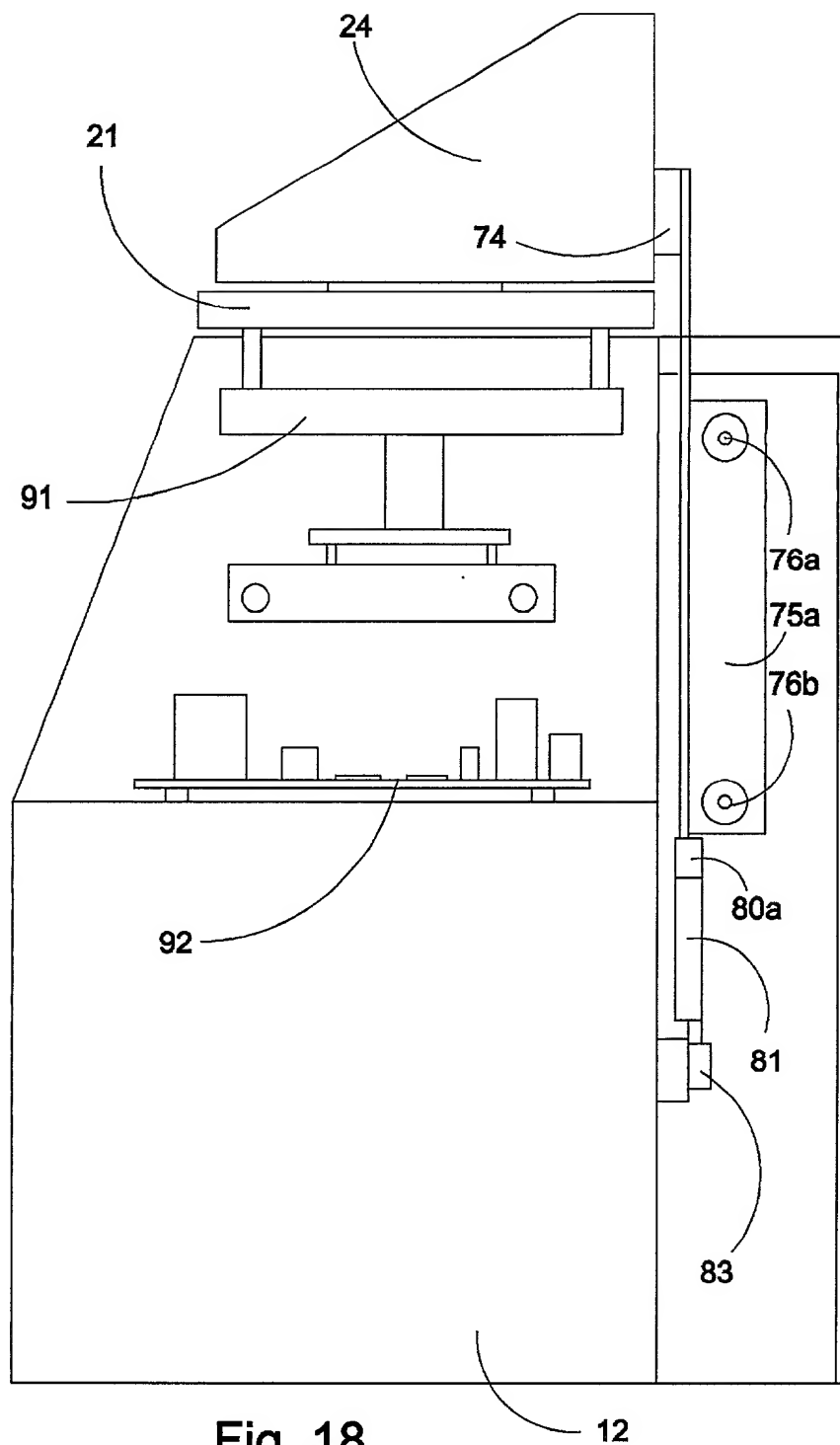


Fig. 18

12

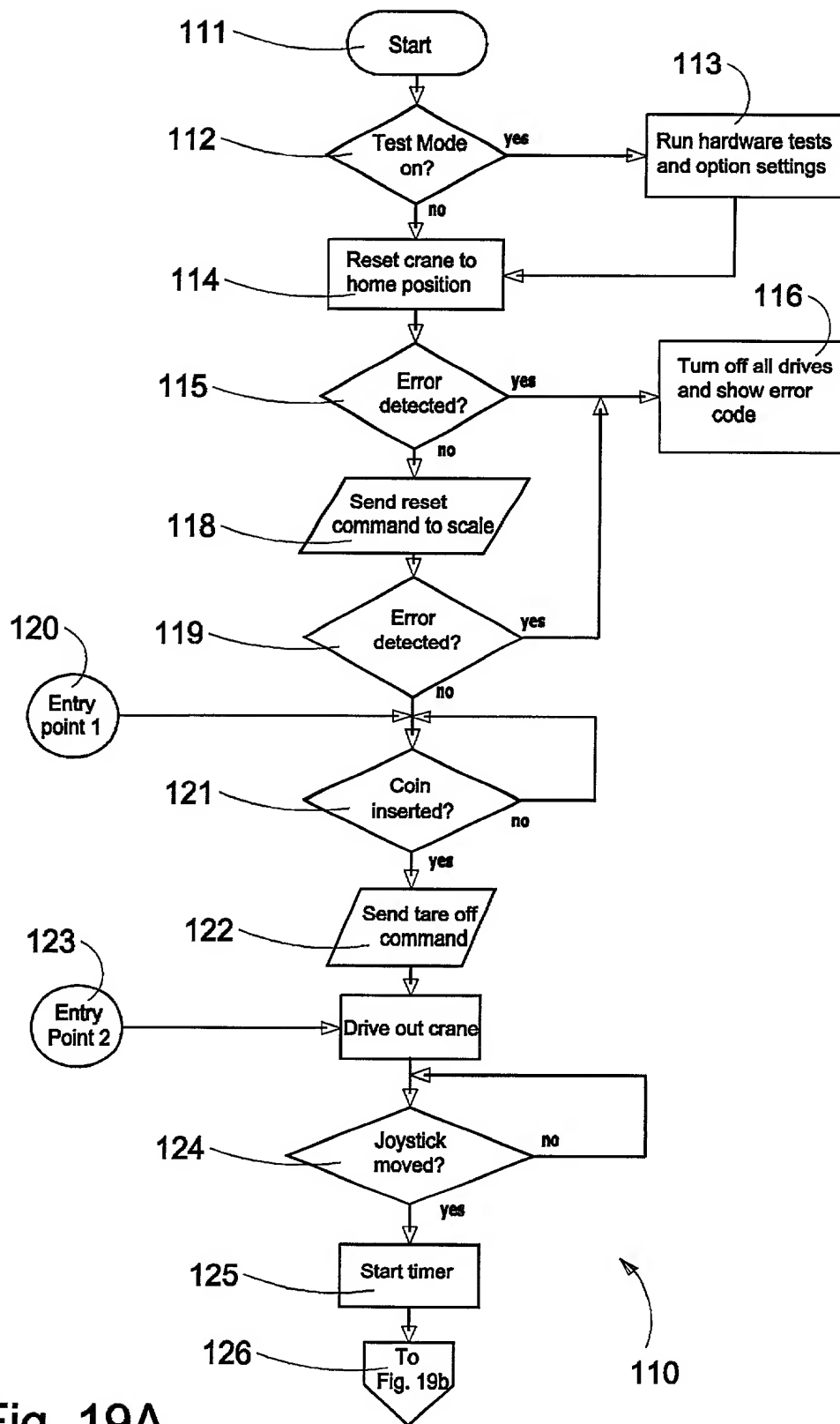
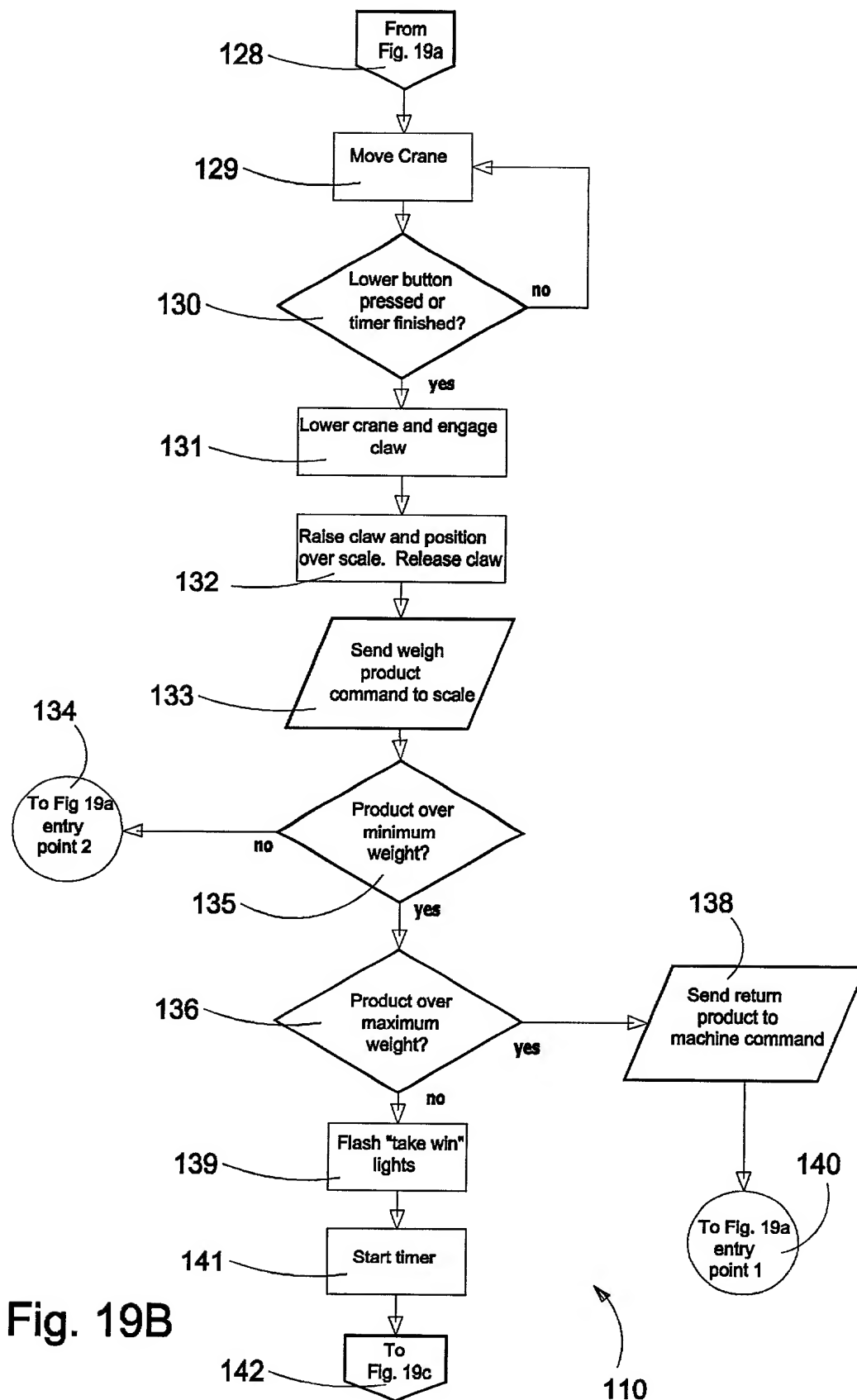


Fig. 19A



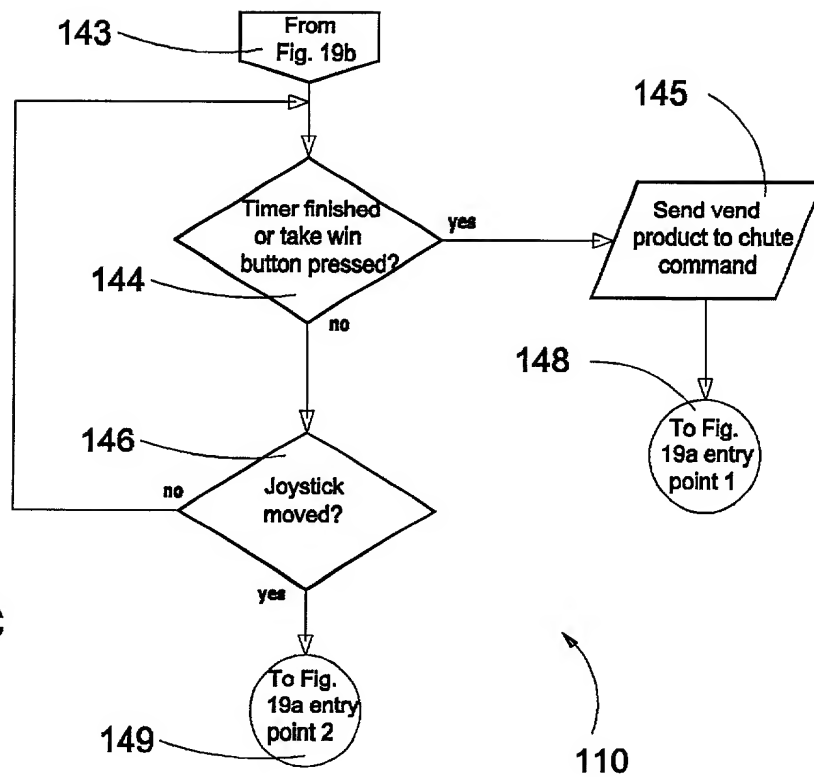


Fig. 19c

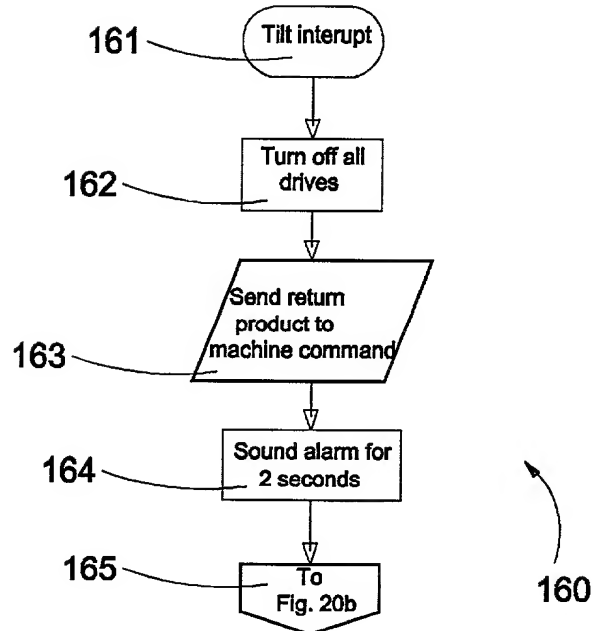


Fig. 20a

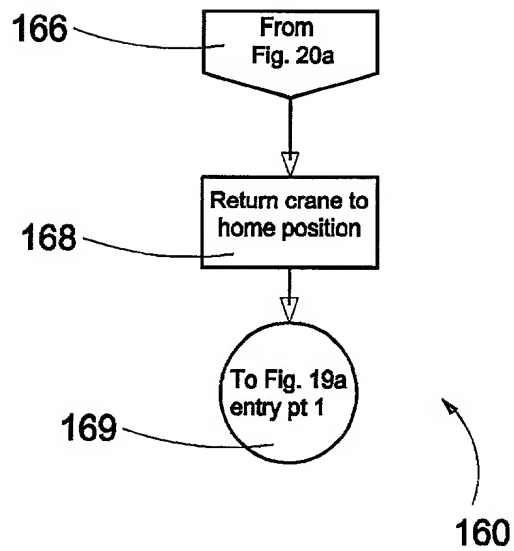


Fig. 20B

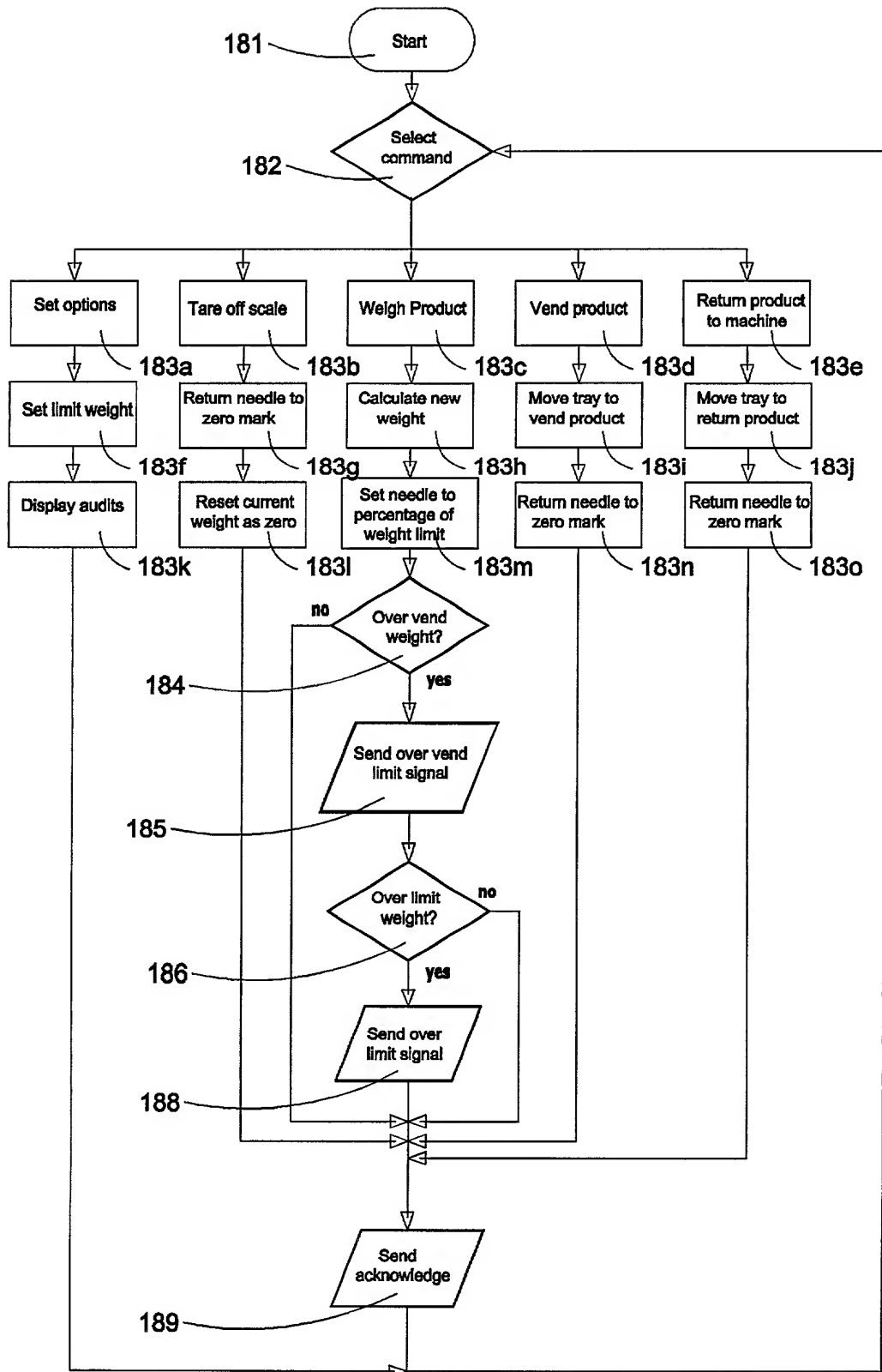


Fig. 21

FIG. 22 is a side cross-sectional view of the device 100, showing the internal components and the housing 12. The device 100 includes a base 12, a support structure 91, and a top section 21. The support structure 91 includes a vertical post 17 and a horizontal plate 74. The top section 21 includes a sloped surface 24 and a vertical plate 29. The device 100 also includes a control panel 27 and a display 75a. The control panel 27 includes a button 76a and a button 76b. The display 75a includes a screen 80a and a screen 81. The device 100 also includes a base 12 and a support structure 92. The base 12 includes a bottom plate 83 and a support structure 92. The support structure 92 includes a vertical post 17 and a horizontal plate 74. The device 100 also includes a top section 21 and a control panel 27. The top section 21 includes a sloped surface 24 and a vertical plate 29. The control panel 27 includes a button 76a and a button 76b. The device 100 also includes a display 75a and a base 12. The display 75a includes a screen 80a and a screen 81. The base 12 includes a bottom plate 83 and a support structure 92. The support structure 92 includes a vertical post 17 and a horizontal plate 74.

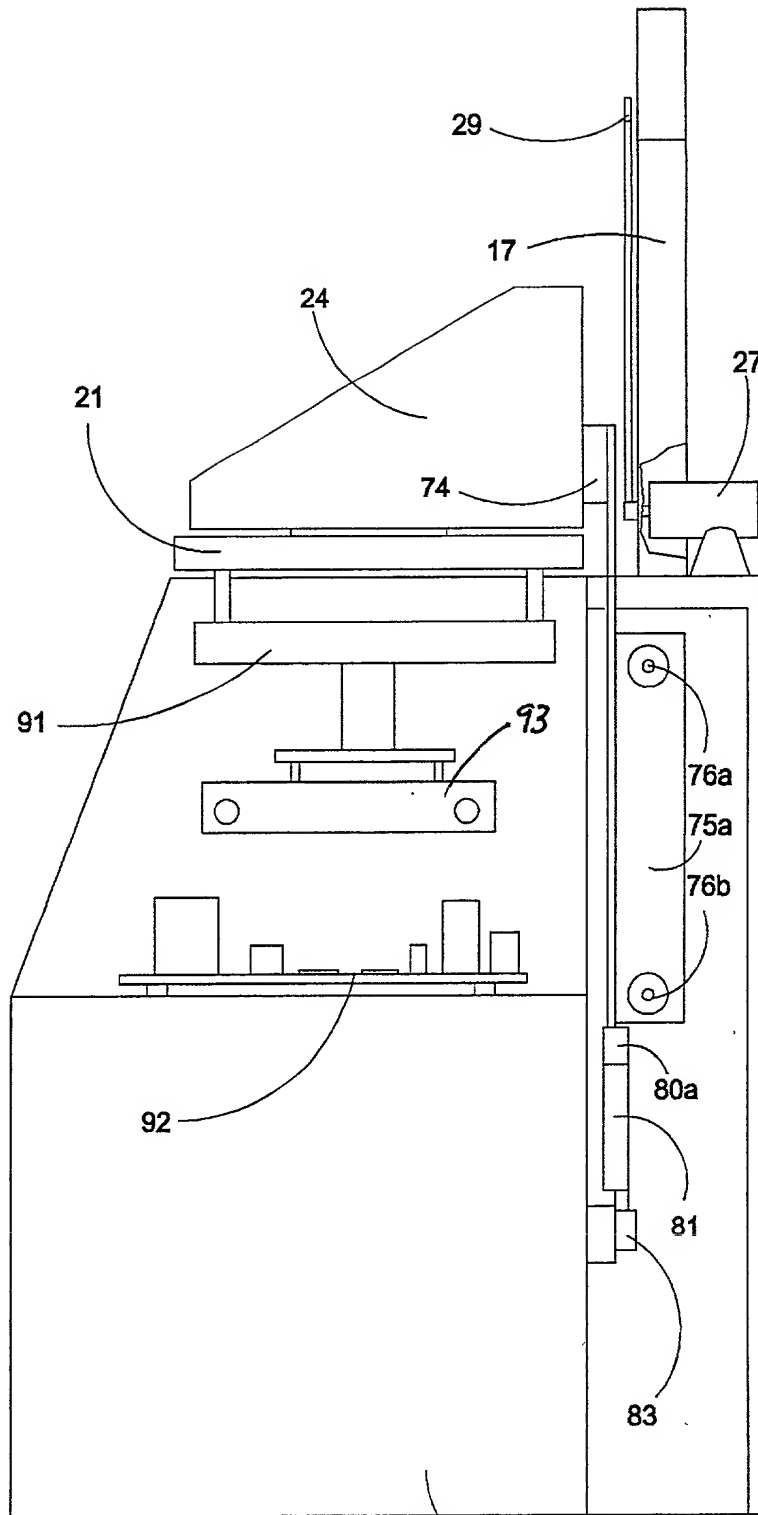


Fig. 22





**Fig. 23**

210 ↗

NOTES: 1. ALL COMPONENTS ARE TO BE USED IN ACCORDANCE WITH THE MANUFACTURER'S DATA SHEET. 2. THE POWER SUPPLY IS TO BE USED IN ACCORDANCE WITH THE MANUFACTURER'S DATA SHEET. 3. THE POWER SUPPLY IS TO BE USED IN ACCORDANCE WITH THE MANUFACTURER'S DATA SHEET.

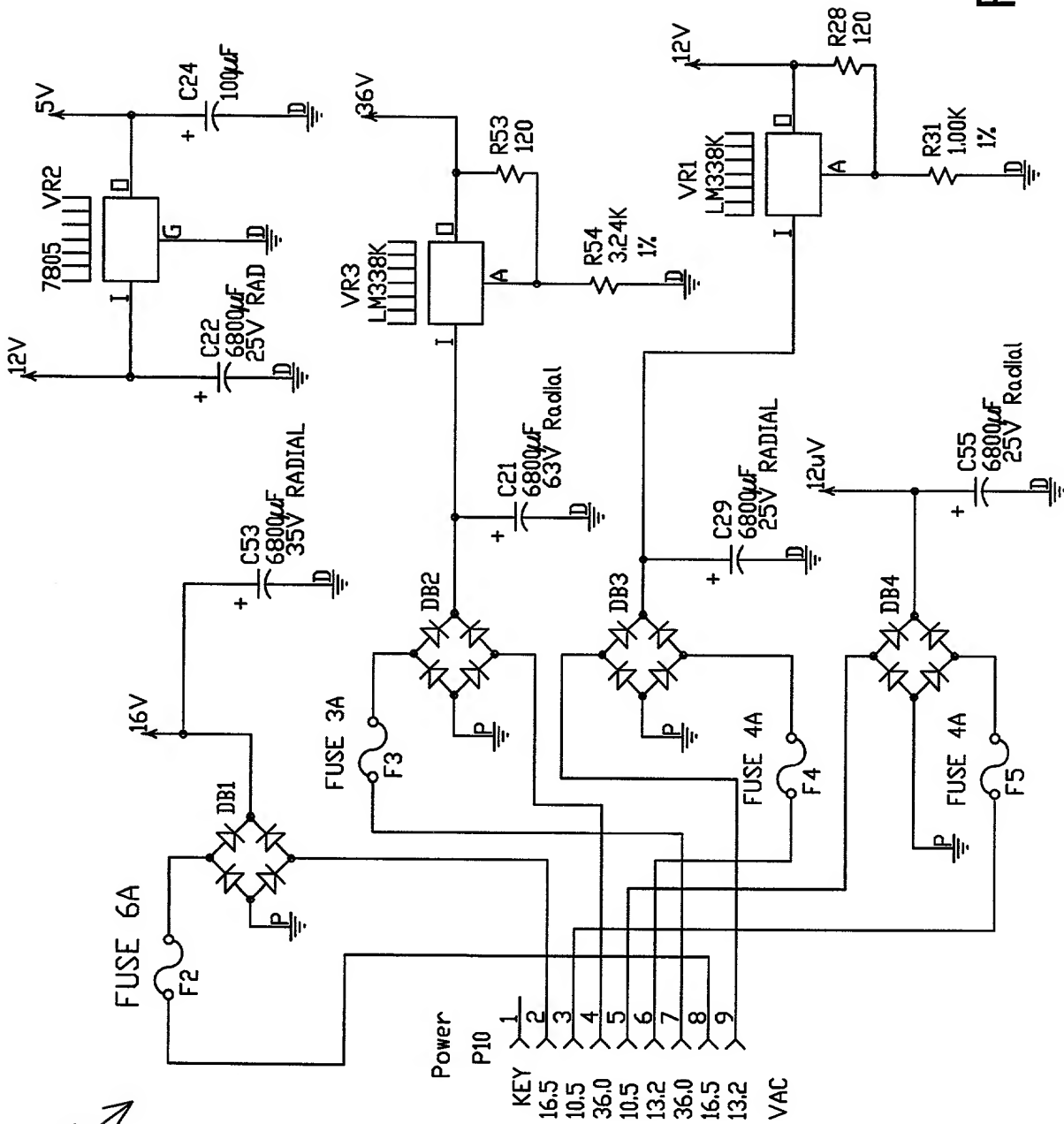


Fig. 24

210 ↗

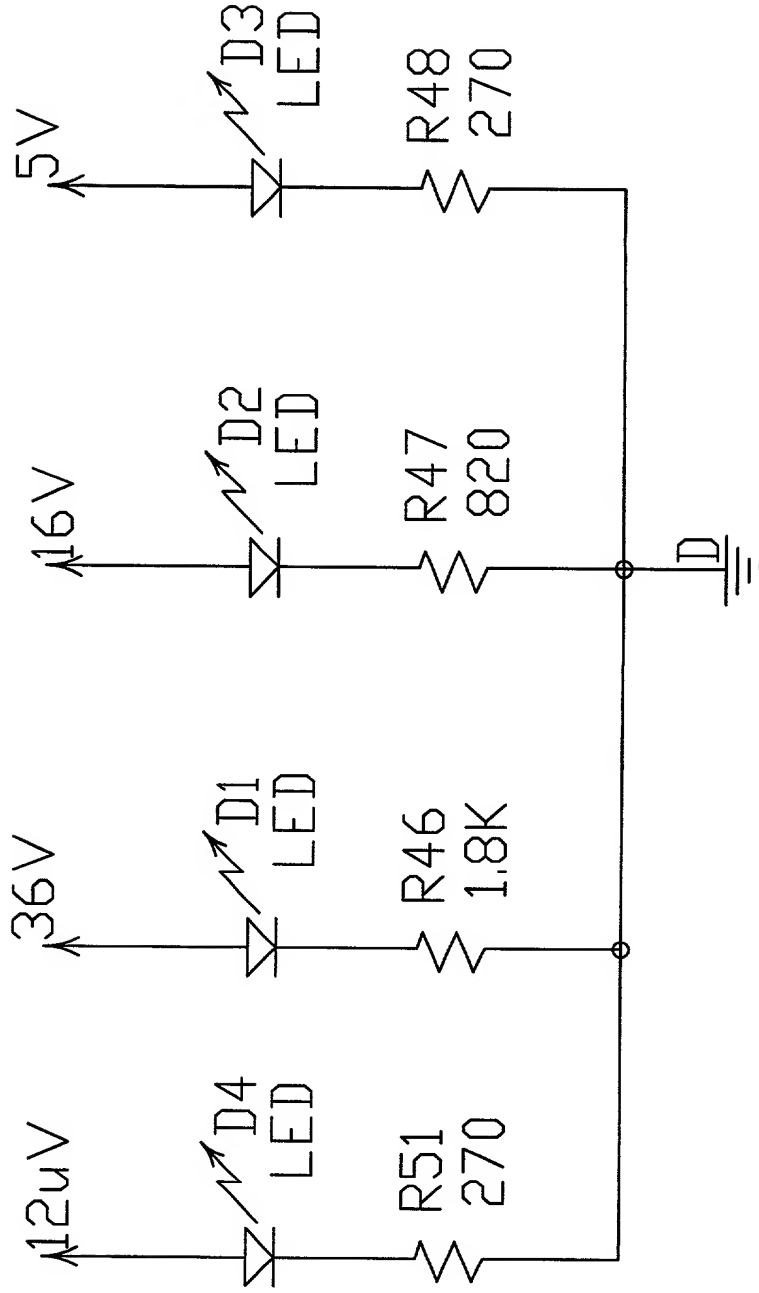


Fig. 25

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.

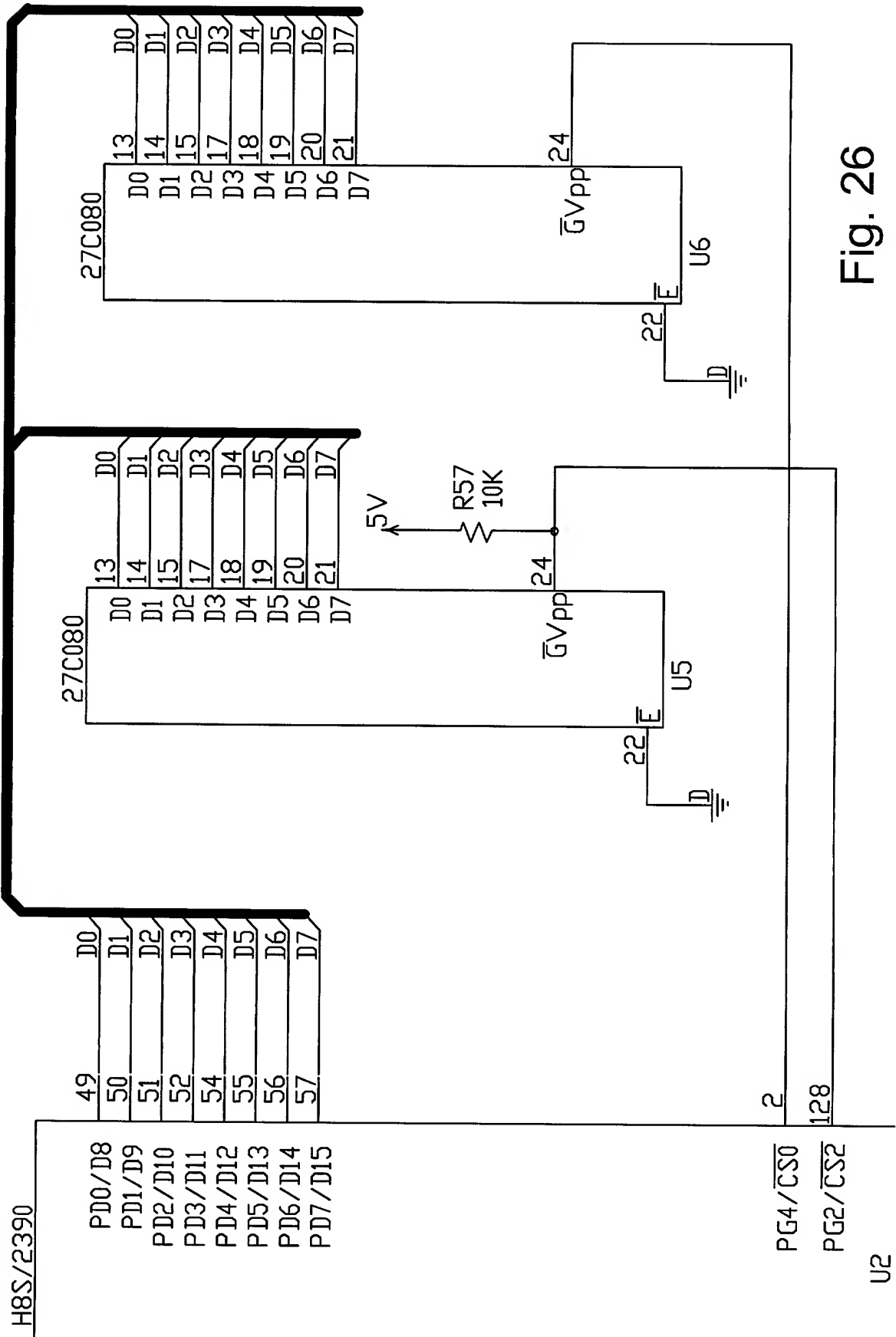
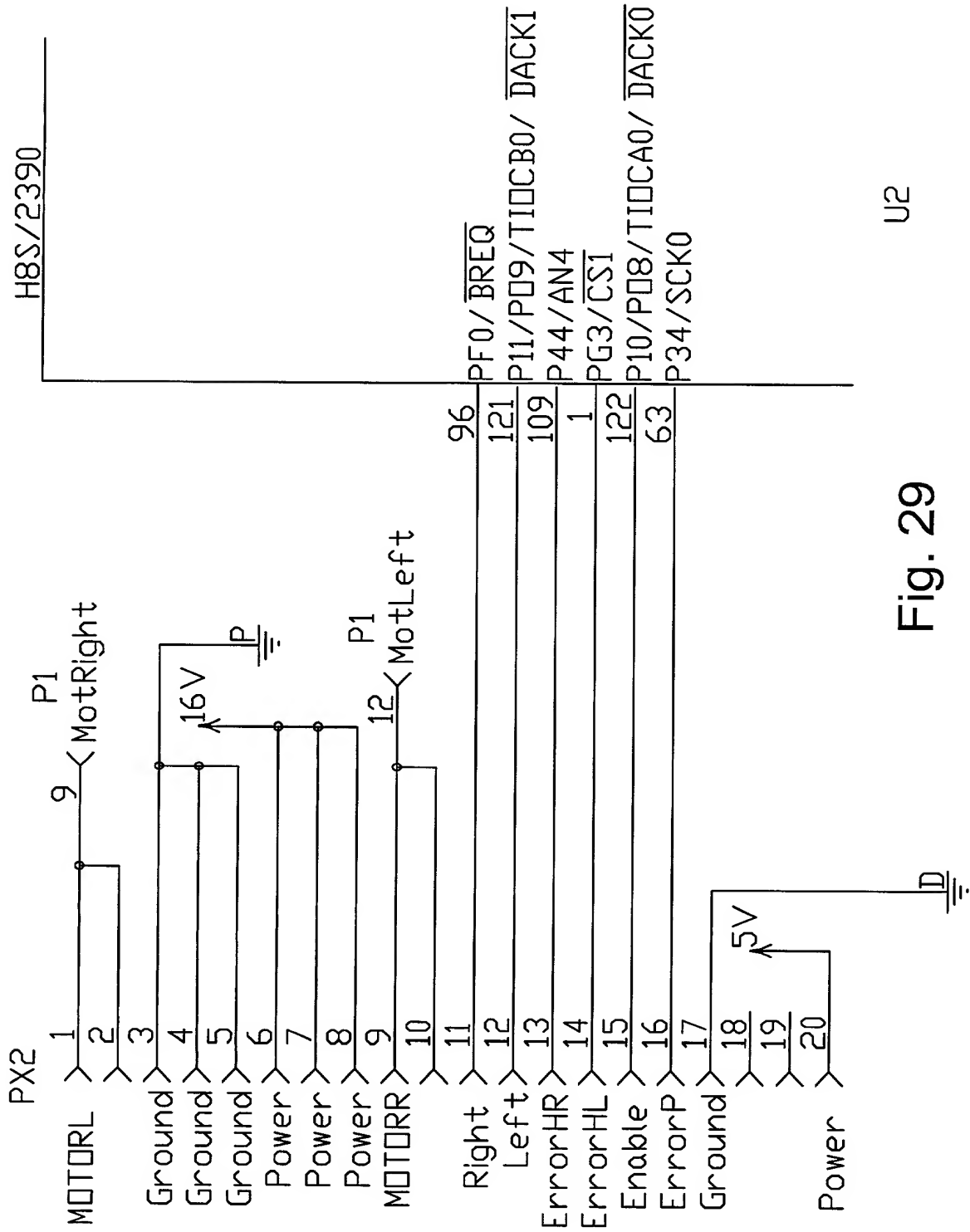


Fig. 26









U2

Fig. 29

280

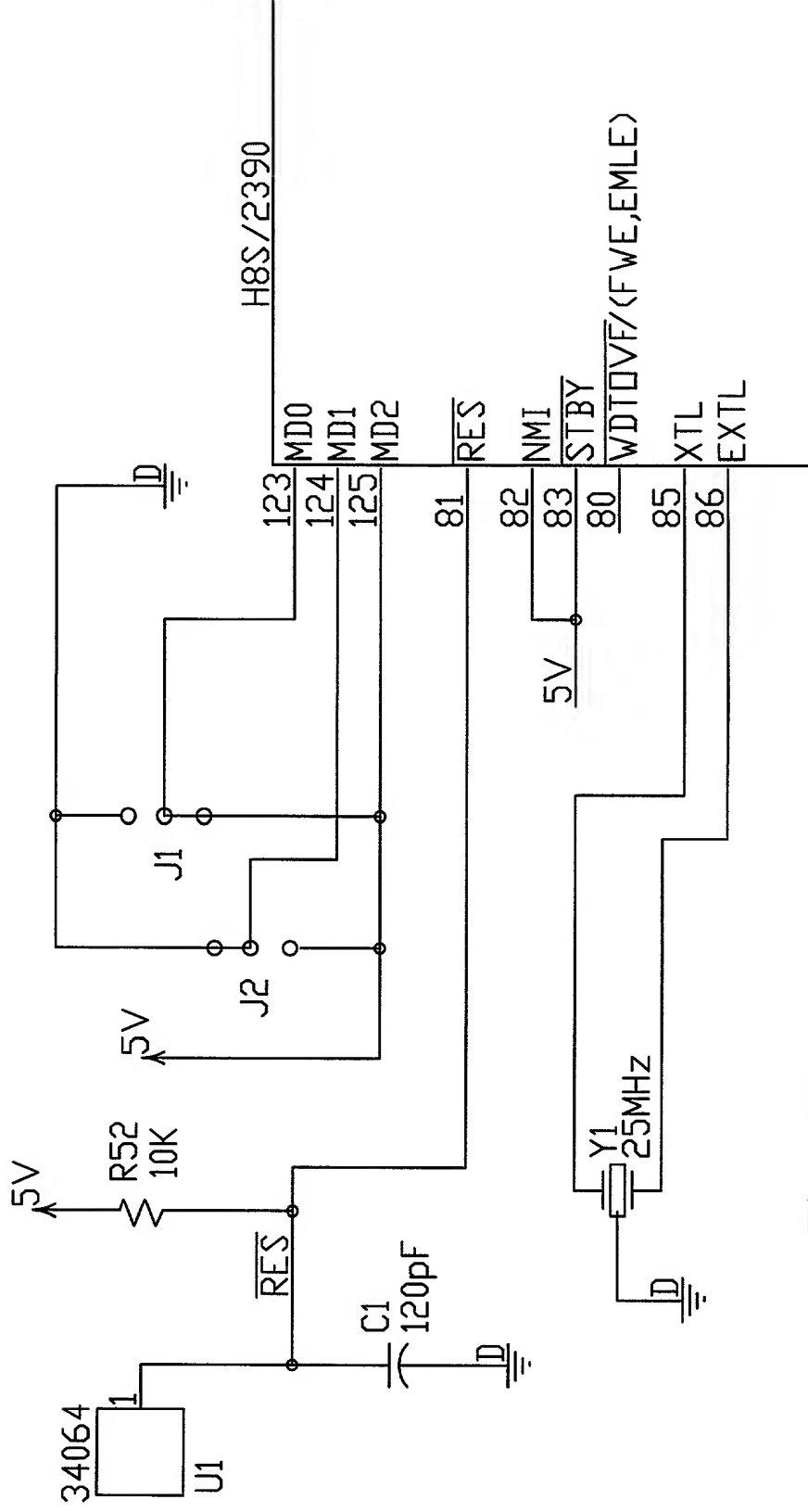
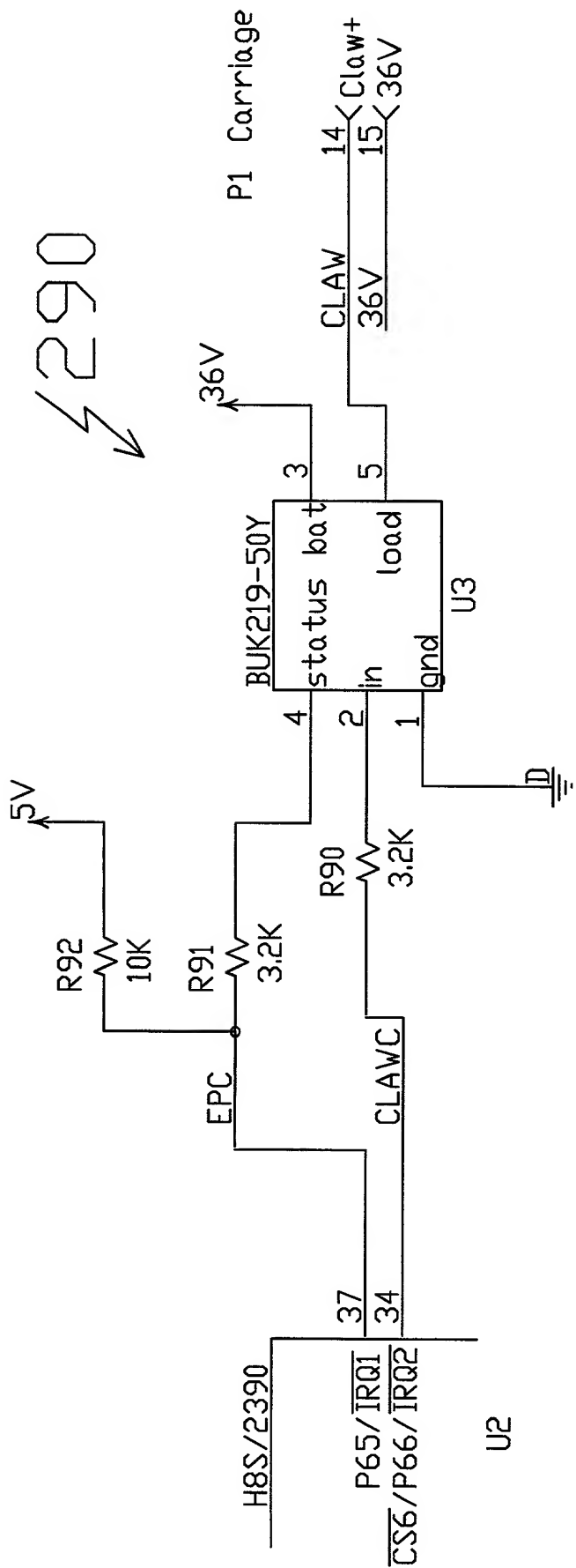


Fig. 30

U2





**Fig. 31**

UNIVERSITY MICROFILMS  
SERIALS ACQUISITION  
300 N. ZEEB RD.  
ANN ARBOR MI 48106-1500  
U.S.A.

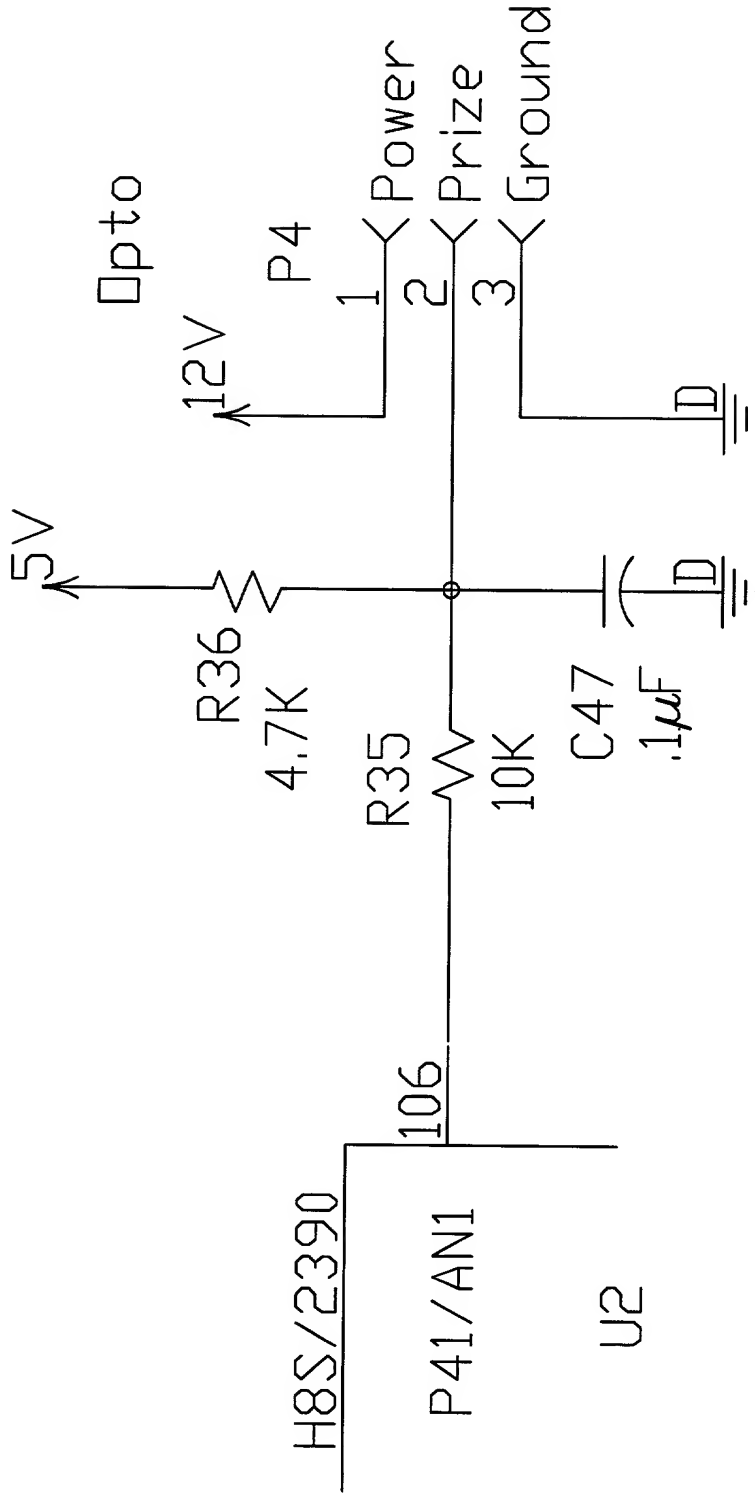


Fig. 32



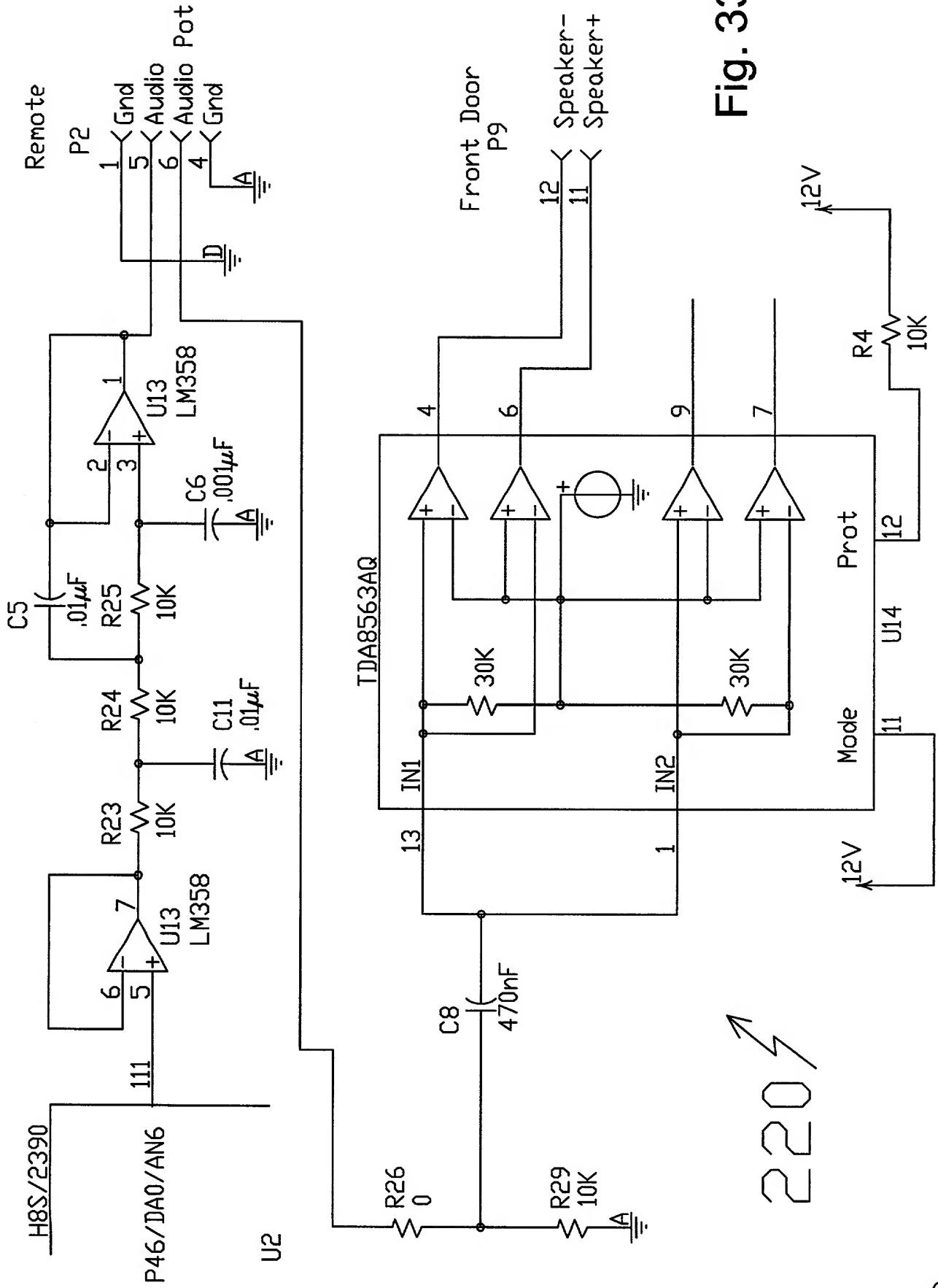


Fig. 33



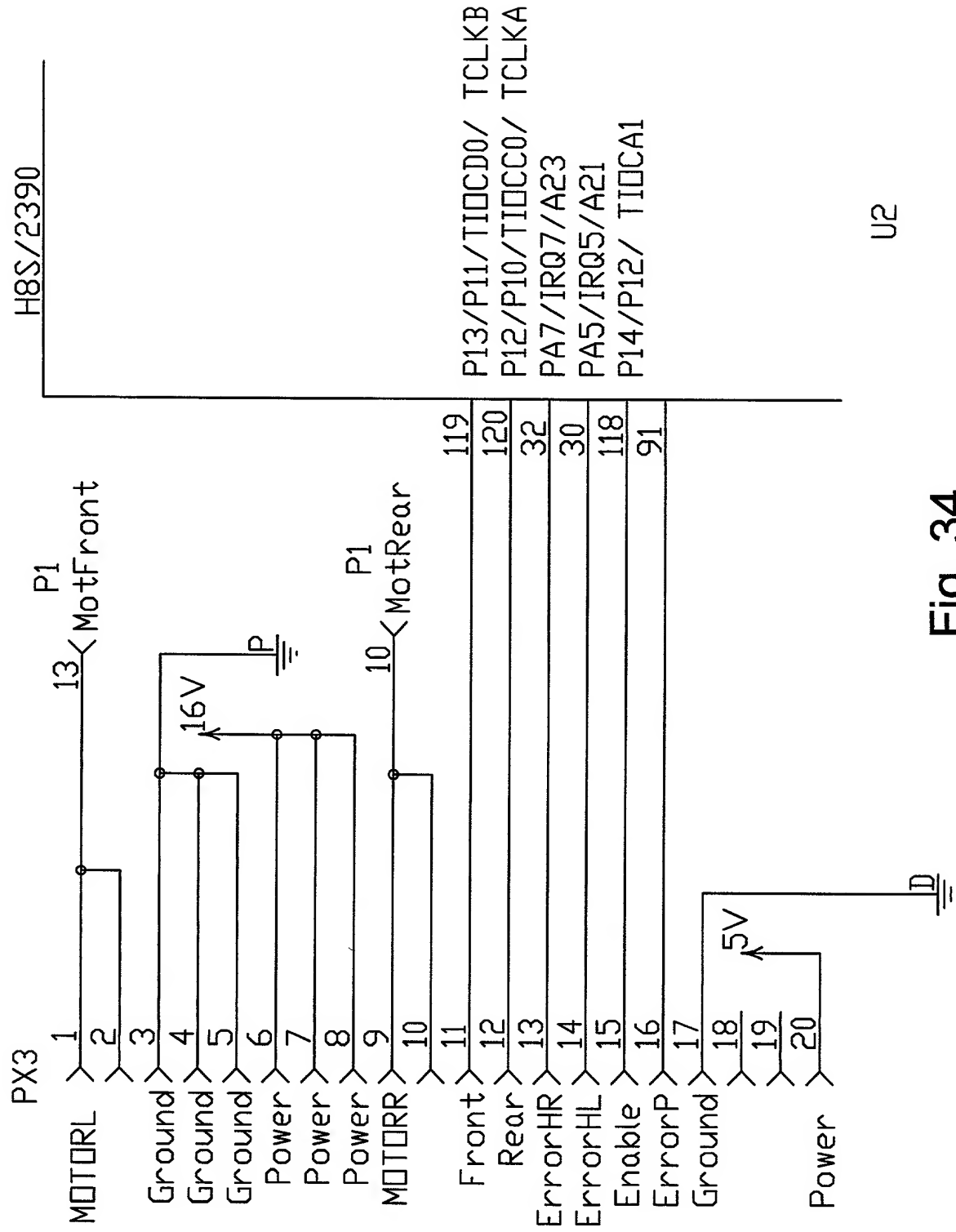


Fig. 34

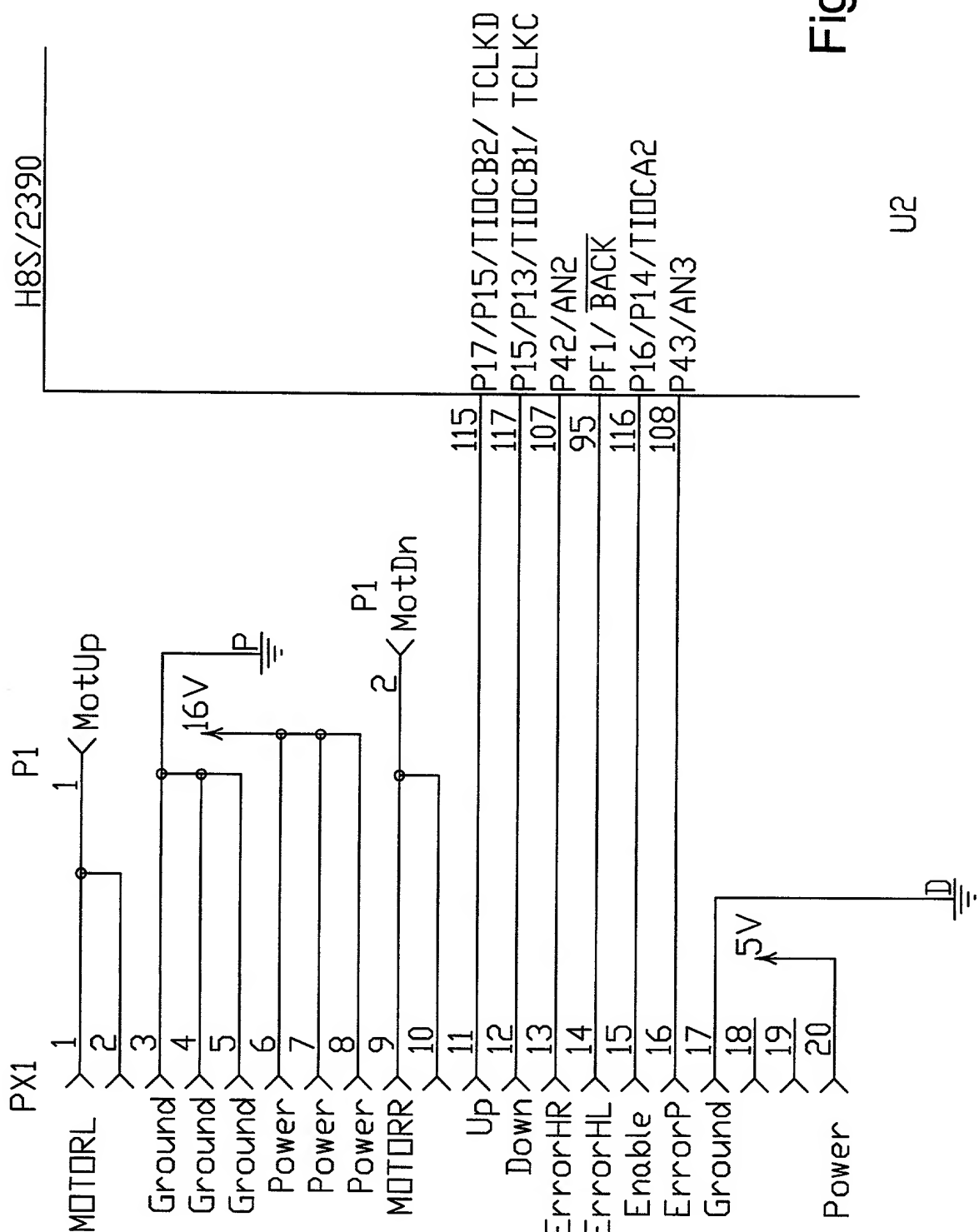


Fig. 35



250

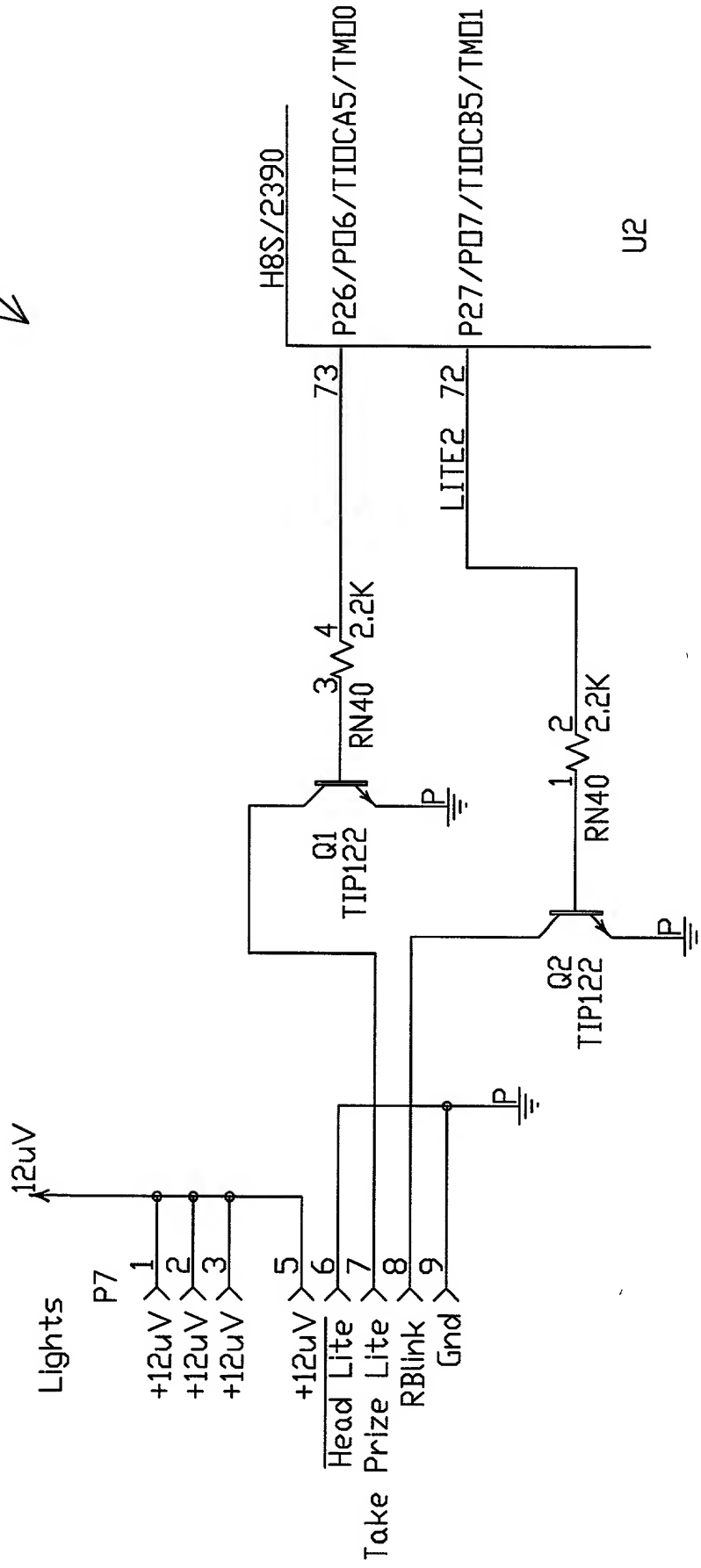


Fig. 36



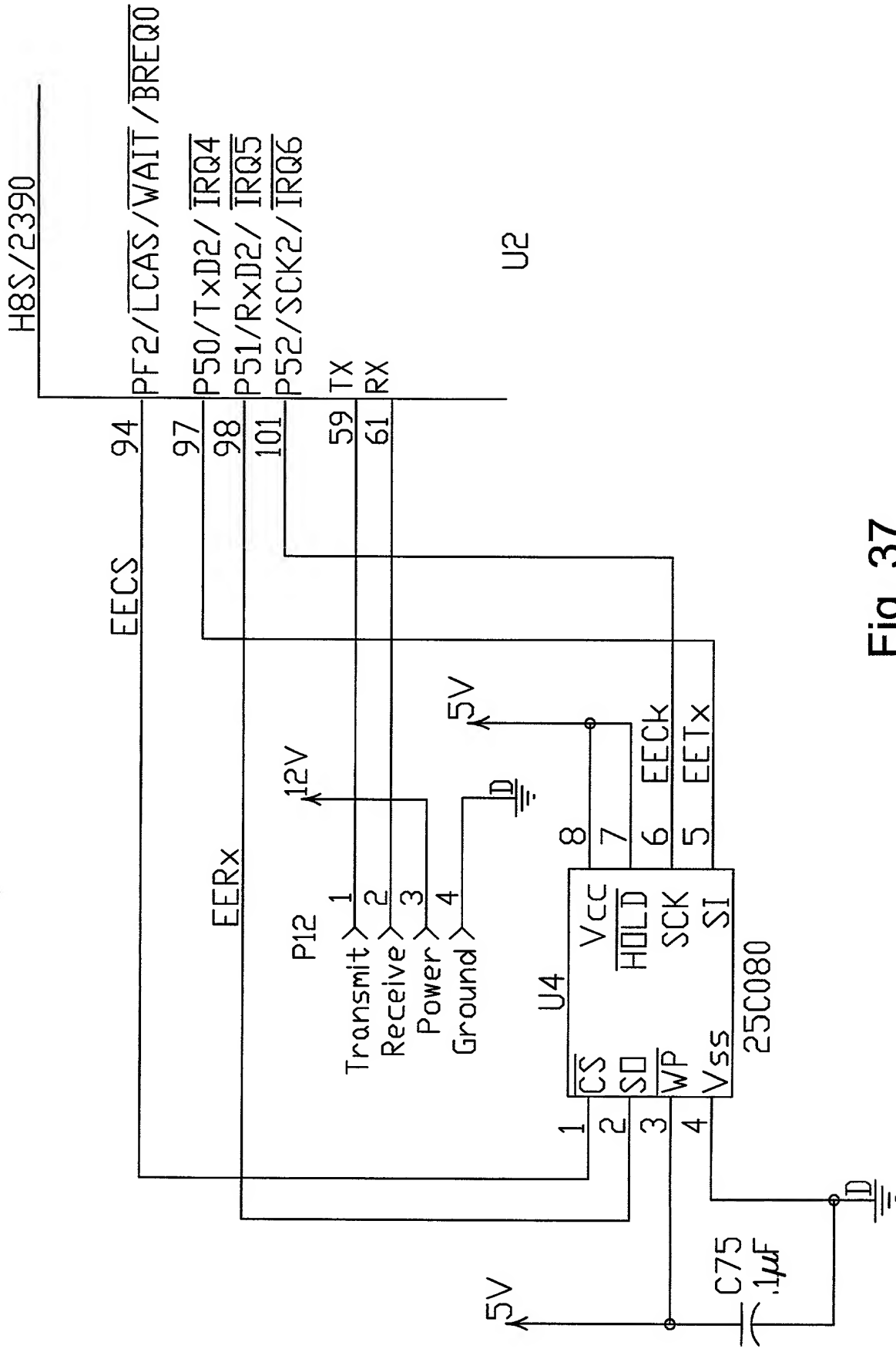


Fig. 37





270 ↗

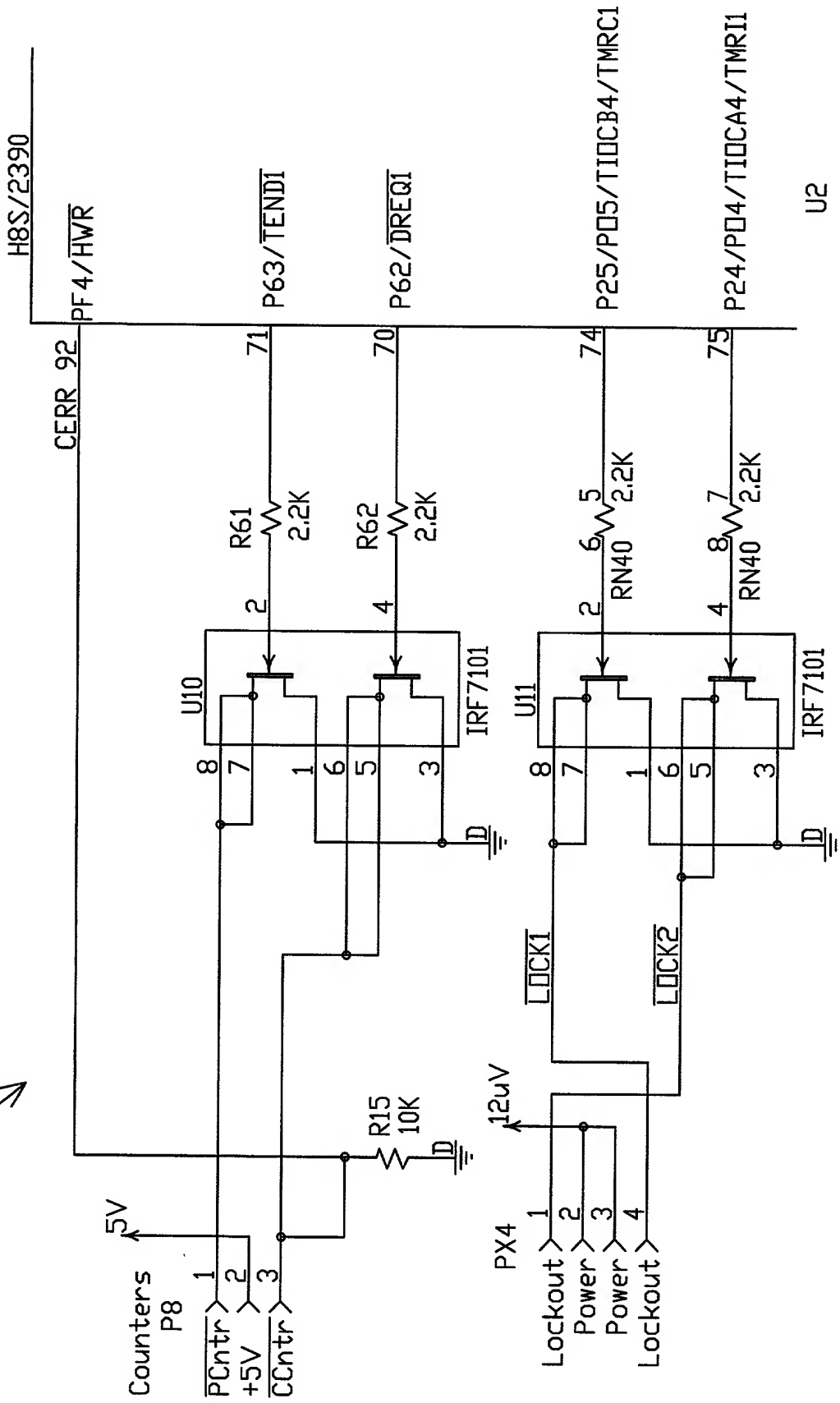


Fig. 39

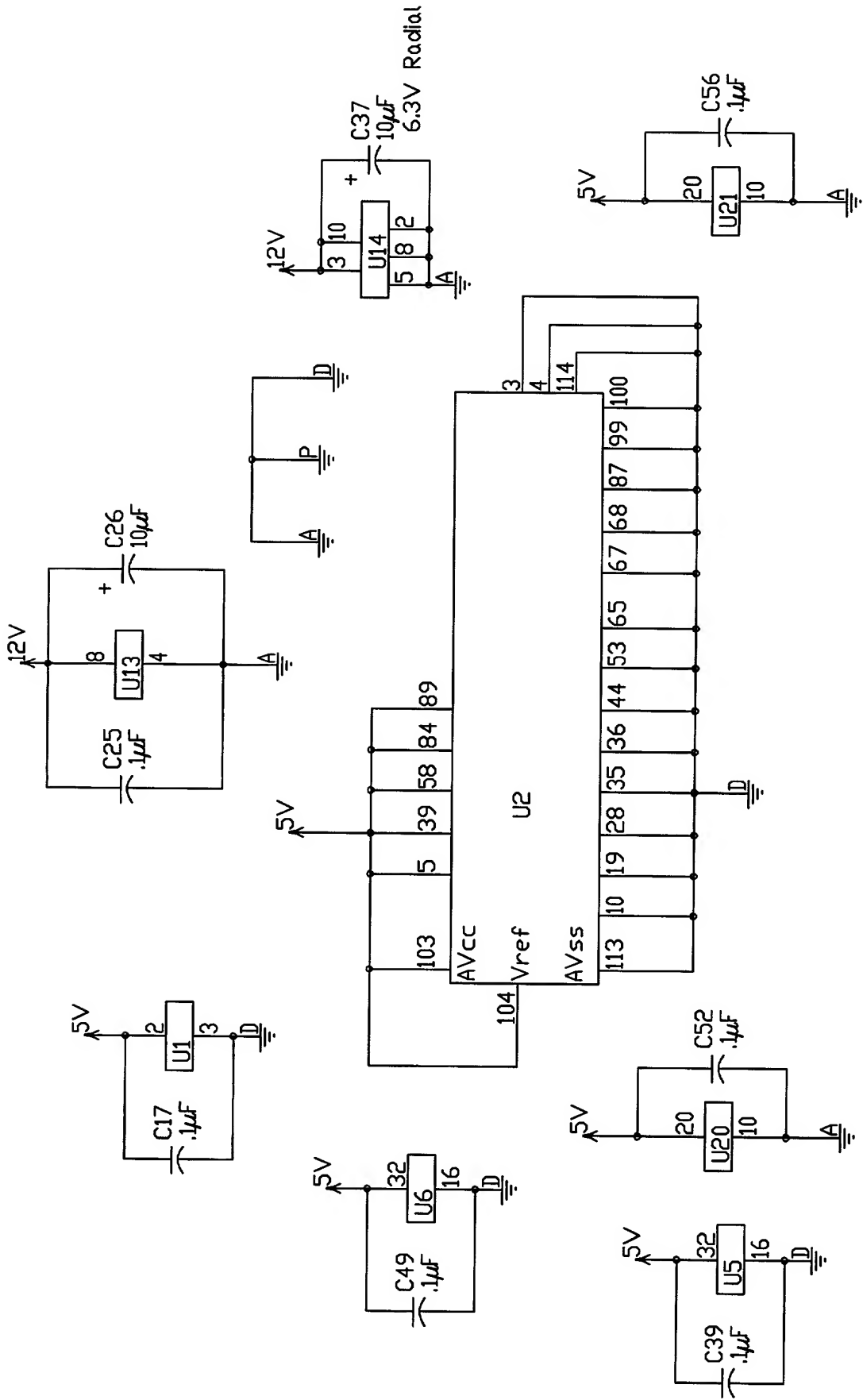


Fig. 40



1. The circuit is a battery status indicator. It uses a BUK219-50Y battery monitor (U2) to monitor the battery status. The battery is connected to the 'in' pin of U2. The 'load' pin of U2 is connected to the battery through a 1.5K resistor (R1). The 'bat status' pin of U2 is connected to the input of a 74HC14 Schmitt trigger (U3). The output of U3 is connected to the input of another 74HC14 Schmitt trigger (U3). The output of U3 is connected to the input of a 74HC08 AND gate (U4). The output of U4 is connected to the input of a 74HC14 Schmitt trigger (U3). The output of U3 is connected to the input of a 74HC14 Schmitt trigger (U3). The output of U3 is connected to the input of a 74HC14 Schmitt trigger (U3).

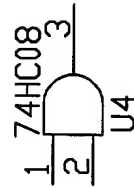
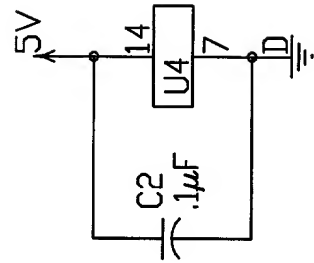
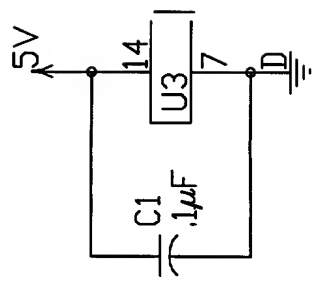
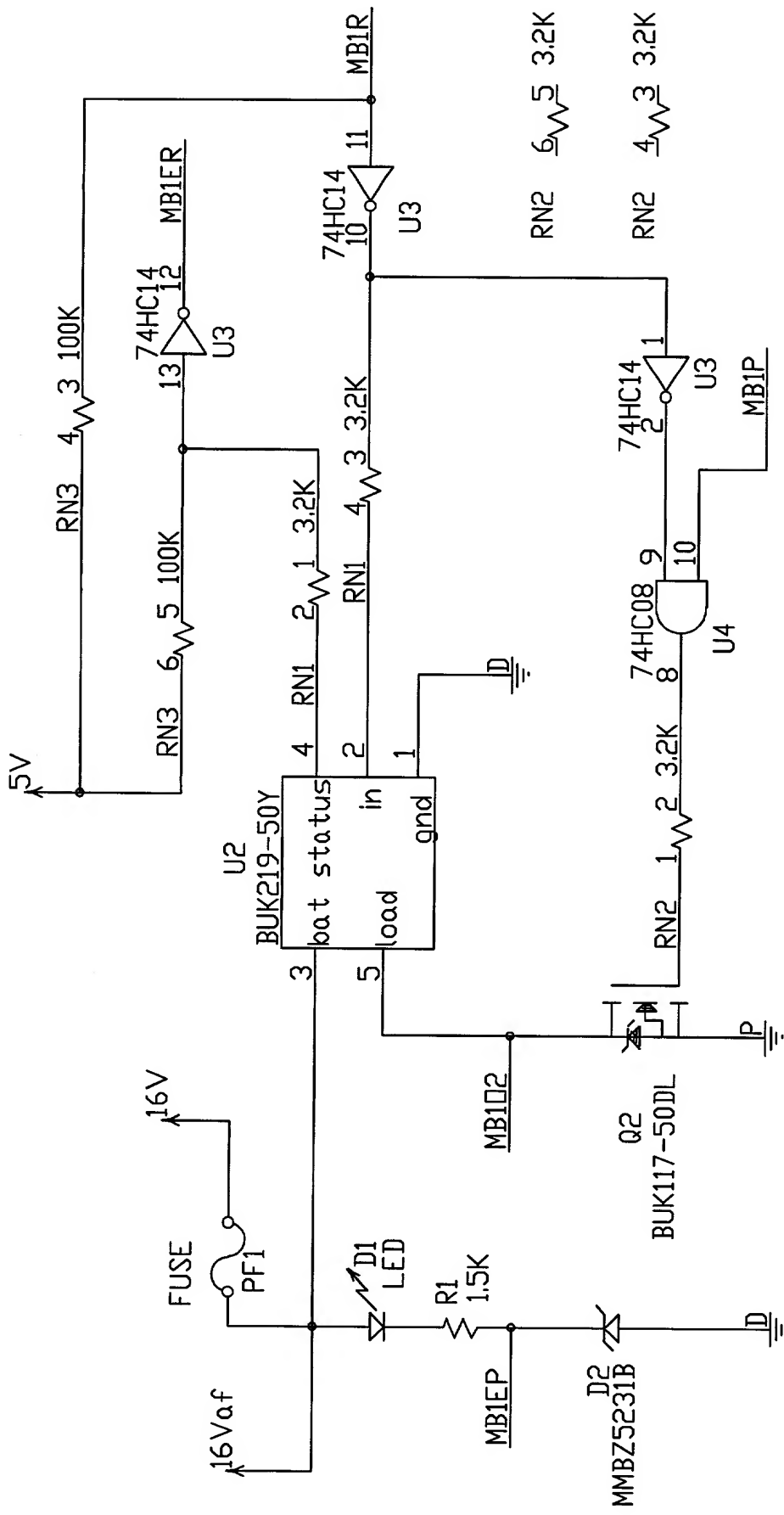


Fig. 41





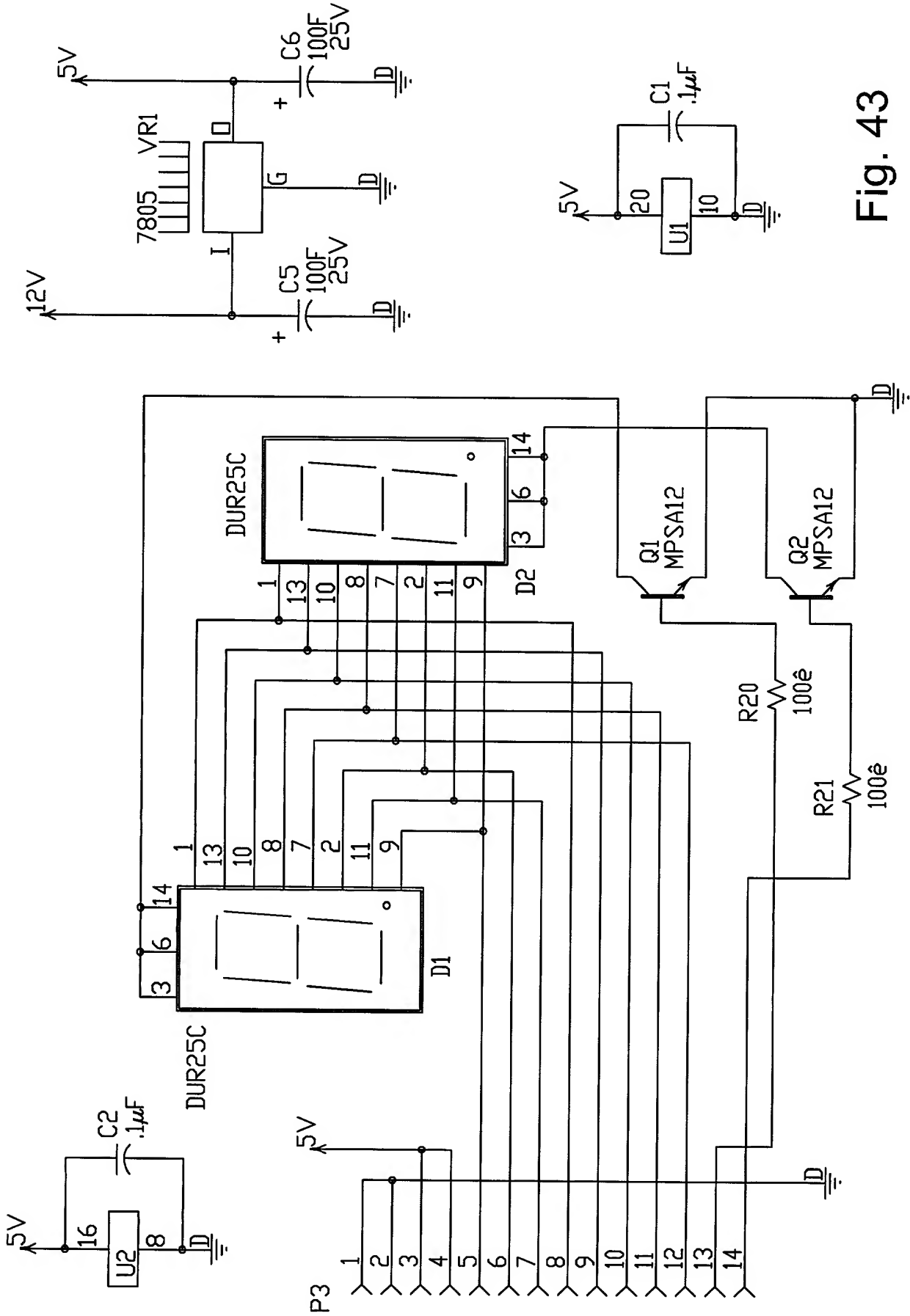


Fig. 43



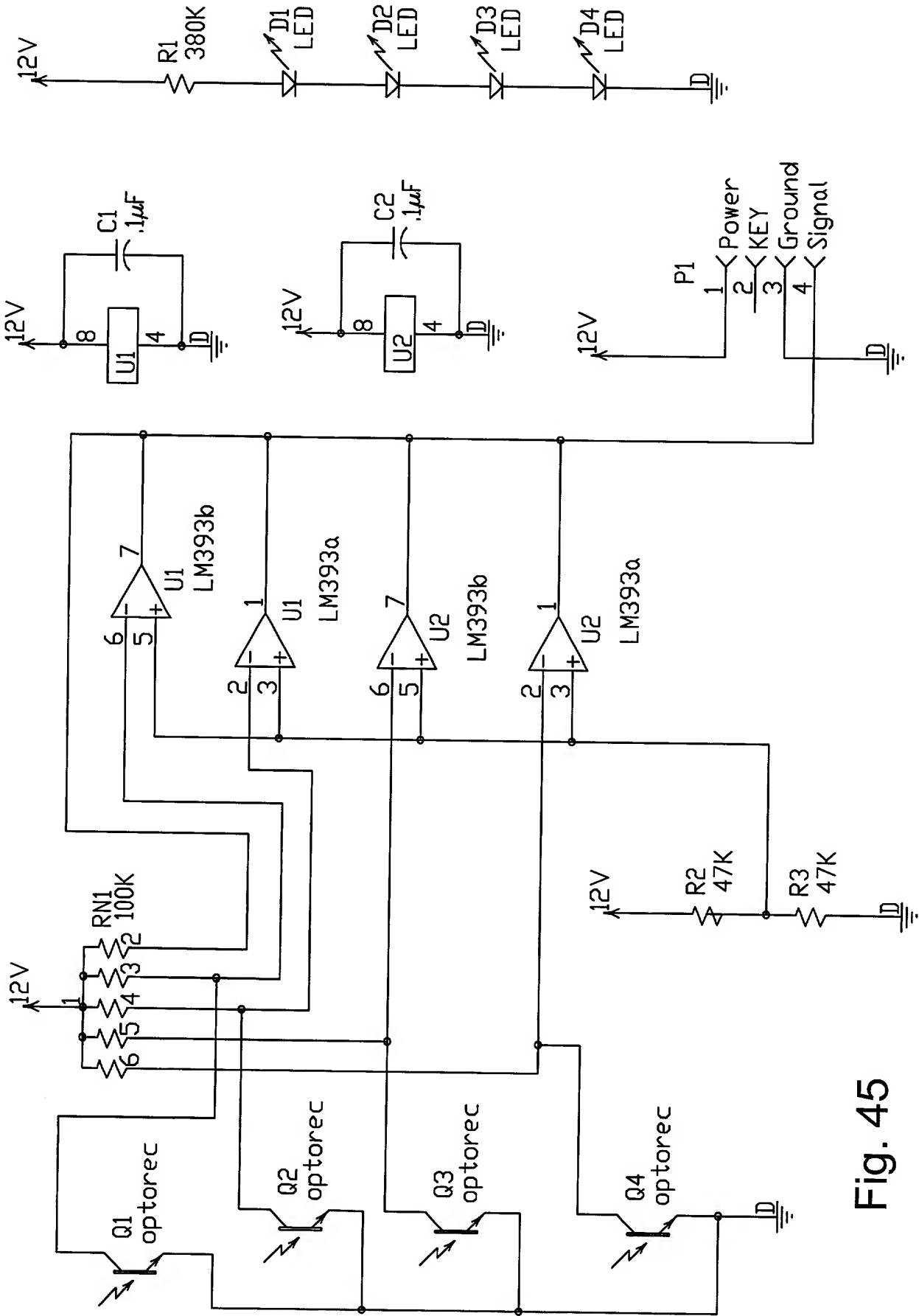


Fig. 45

290

290

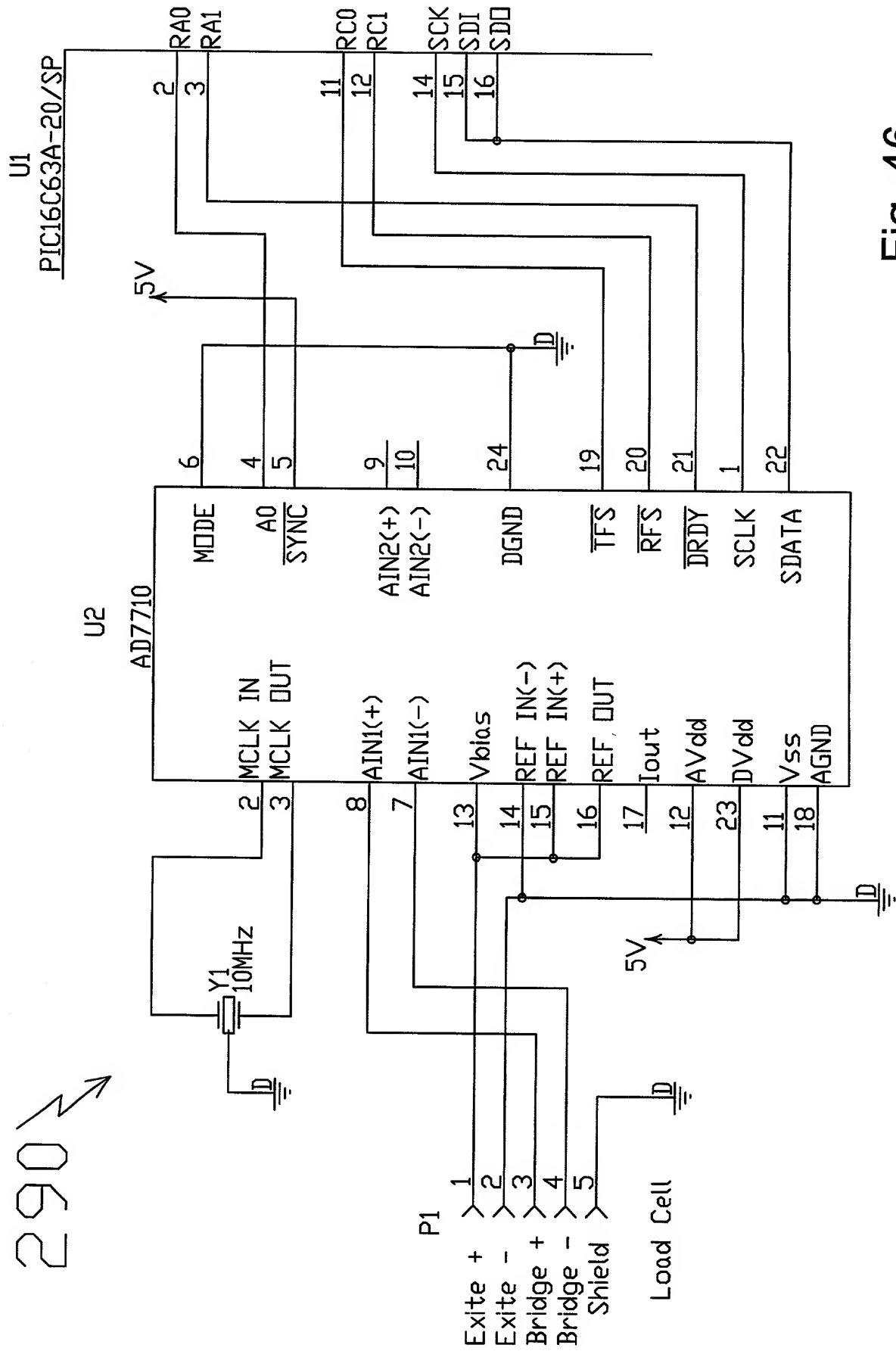


Fig. 46



1. The PIC16C63A-20/SP is a 16-bit microcontroller with 2K bytes of EPROM, 256 bytes of RAM, and 10 general-purpose registers. It is designed for low-power applications and is available in a DIP-18 package.

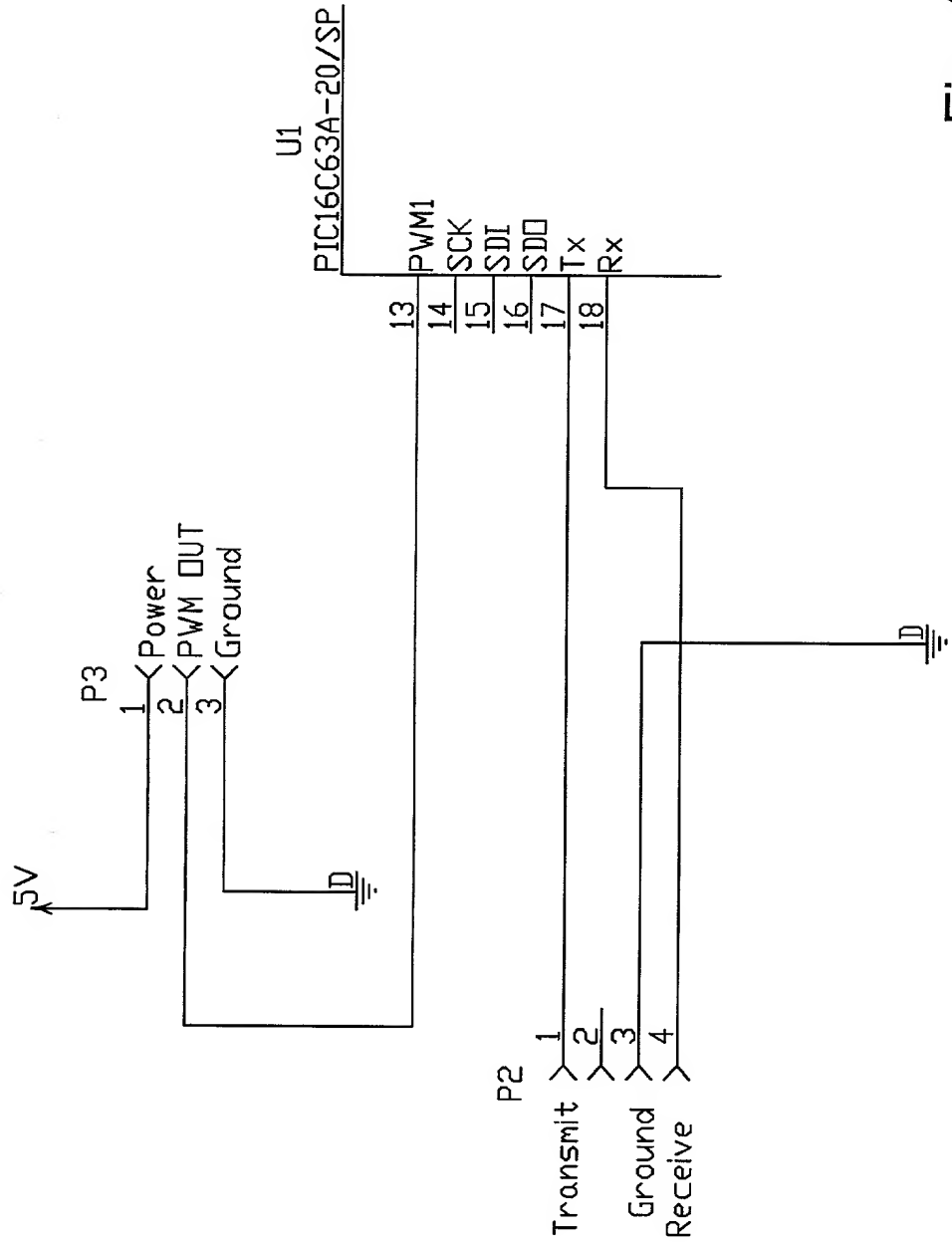


Fig. 47



310 ↗

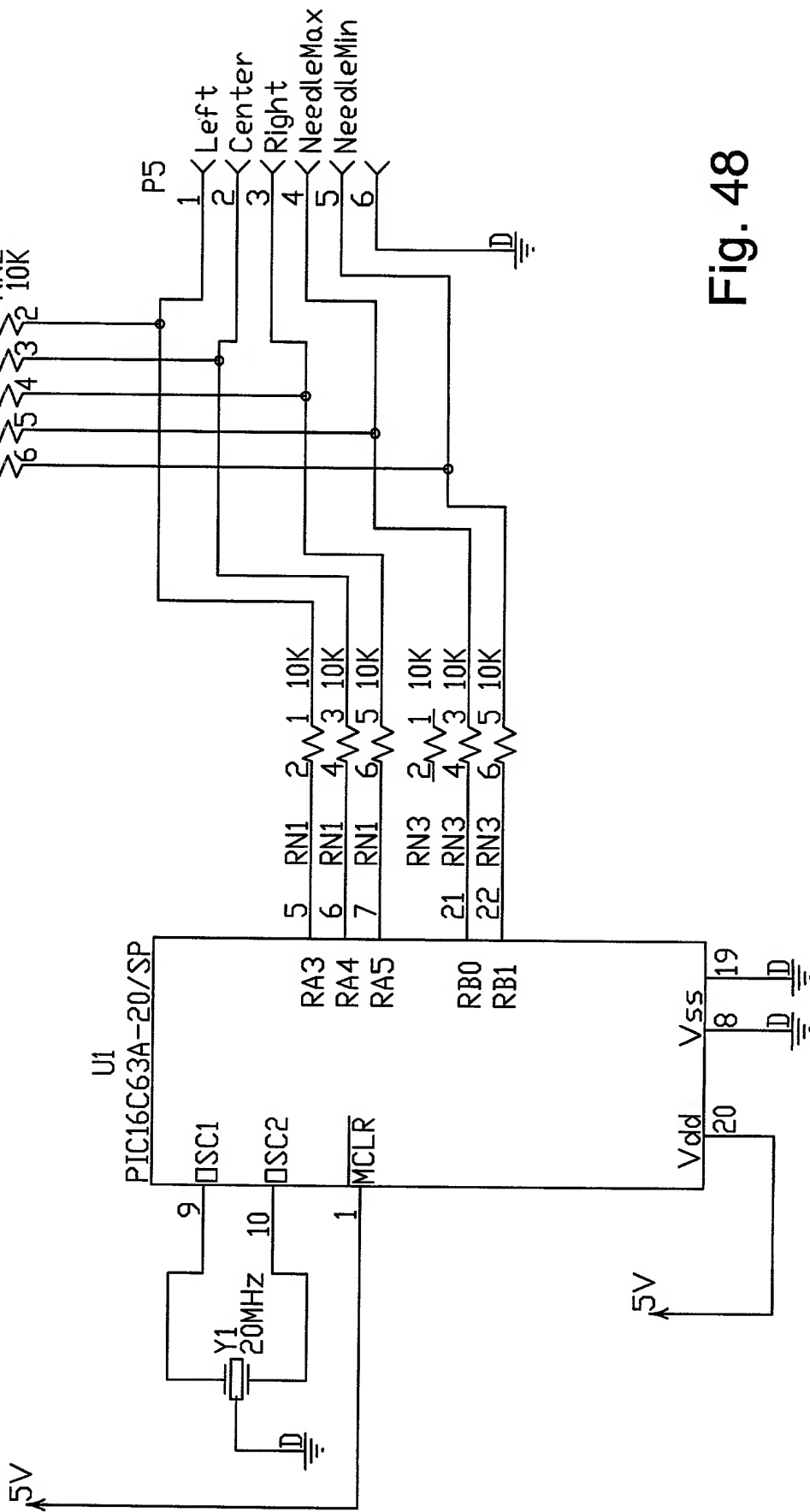


Fig. 48



